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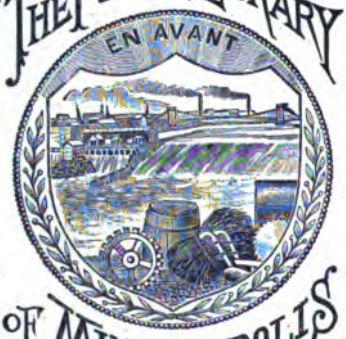
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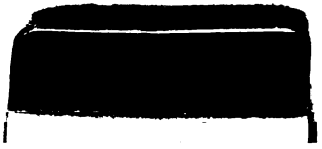
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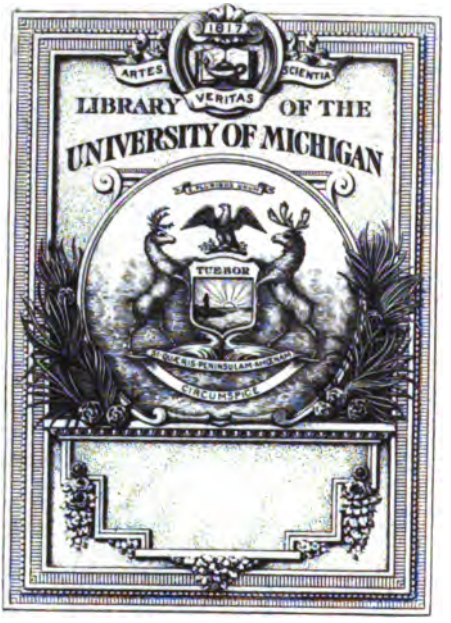
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PROVIDENCE, R. I.

CITY DOCUMENTS

FOR THE YEAR

1896.

VOLUME II.

COMPLIMENTS OF



City Clerk.

REMINGTON PRINTING CO., CITY PRINTERS,
63 Washington Street.
1897.

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PROVIDENCE, R. I.

CITY DOCUMENTS

FOR THE YEAR

1896.

VOLUME II.



REMINGTON PRINTING CO., CITY PRINTERS,
63 Washington Street.
1897.

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3. ANNUAL REPORT OF THE PARK COMMISSIONERS, for 1895.

4. ANNUAL REPORT OF THE INSPECTOR OF BUILDINGS, for the year 1895.

5. ANNUAL REPORT OF THE SUPERINTENDENT OF PUBLIC BUILDINGS, for the year 1895.

6. FIFTY-SECOND QUARTERLY REPORT OF THE DEPARTMENT OF PUBLIC WORKS, for the quarter ending December 31, 1895.

7. ANNUAL REPORT OF THE INSPECTOR OF PLUMBING, for 1895.

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8. Report of the Joint Special Committee on Railroad Terminal Facilities.

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11. Report of the Joint Special Committee on the purchase of land adjoining Roger Williams Park.

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13. Thirteenth Annual Report of the Superintendent of Health, for the year 1895.

14. Annual Report of the Commissioners of the North Burial Ground, for the year ending December 31, 1895.

15. Annual Report of the Overseer of the Poor, for 1895.

16. First Annual Report of the Board of Fire Commissioners, for the year 1895.

17. Report of the City Auditor submitting estimates of the Receipts and Expenditures of the City of Providence for the financial year ending September 30, 1897.

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18. ANNUAL REPORT OF THE CHIEF OF POLICE, for 1895.

19. FORTY-FIRST ANNUAL REPORT OF THE CITY REGISTRAR UPON THE BIRTHS, MARRIAGES AND DEATHS in the City of Providence, for the year 1895.

20. MAJORITY AND MINORITY REPORTS OF THE JOINT SPECIAL COMMITTEE UPON TRANSFER TICKETS.

21. FIFTY-THIRD QUARTERLY REPORT OF THE DEPARTMENT OF PUBLIC WORKS, for the quarter ending March 31, 1896.

22. ANNUAL REPORT OF THE SCHOOL COMMITTEE of the City of Providence.

23. FIFTY-FOURTH QUARTERLY REPORT OF THE DEPARTMENT OF PUBLIC WORKS, for the quarter ending June 30, 1896.

24. REPORT OF THE EXPERT ACCOUNTANT, GEORGE S. CHASE, upon examination of the books and accounts of the City Treasurer.

25. REPORT OF THE COMMISSIONERS upon the layout and extension of Hannah street.

26. REPORT OF THE COMMISSIONERS upon the layout, widening and extension of Mount Pleasant avenue.

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27. FIFTY–FIFTH QUARTERLY REPORT OF THE DEPARTMENT OF PUBLIC WORKS, for the quarter ending September 30, 1896.

28. REPORT OF THE COMMISSIONERS upon the layout and extension of Lexington avenue.

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ANNUAL REPORT

OF THE

CITY ENGINEER

OF THE

CITY OF PROVIDENCE,

FOR THE YEAR 1895.



The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
15 Custom House Street.
1896.

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REPORT.

CITY ENGINEER'S OFFICE, CITY HALL,
PROVIDENCE, R. I., January 1, 1896.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF PROVIDENCE:

In compliance with the ordinances relating to the City Engineer's Department, the following report of the expenses and operations of the department for the year 1895 is respectfully submitted:

The amounts paid from the appropriations for this department from January 1, 1895, to January 1, 1896, are as follows:

Expended from the appropriation for 1894–95,	$36,918 48
" " " " " 1895–96,	$12,348 69
Total amount expended, . . .	$49,267 17

The condition of the appropriation for 1895–96 is as follows:

Amount appropriated for the fiscal year ending September 30, 1896, ...	$50,000 00
Amount expended to January 1, 1896. . .	12,348 69
Unexpended balance January 1, 1896, .	37,651 31

An additional appropriation of one thousand dollars was made before the close of the fiscal year.

At the close of the fiscal year, September 30, 1895, the balance of appropriation unexpended, $3.91, was transferred from the account of this department.

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CLASSIFICATION OF EXPENDITURES.

For salaries,	$46,283 51
" horse hire,	2 00
" car tickets,	1,548 25
" instruments and repairs,	167 10
" supplies, drawing materials, etc.,	969 95
" meteorological instruments and repairs,	187 50
" incidentals,	67 19
" telephone lines,	41 67
Total,	$49,267 17

In addition to this amount the sum of eleven thousand two hundred and twenty-one dollars has been paid for engineering services out of the Improved Sewerage construction account, and the sum of five thousand eight hundred and seventy-eight dollars out of the Public Park account.

The item for salaries of assistants may be divided as follows:

For general superintendence, estimating the cost and giving lines and grades for the extension of water pipes, engine and water calculations, service pipe work, for surveys, and other matters relating to water works,	$5,001 30
For giving lines and grades for sewer construction, making preliminary surveys and plans, finished plans and sections, private drains, surveys, estimates, plans, etc., for improved sewerage system, and all work relating to sewers,	3,243 62

In addition to this amount the sum of eleven thousand two hundred and twenty-one dollars has been paid for engineering services out of the Improved Sewerage construction account.

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For marking lines and grades for and estimating cost of street construction, defining established grades, designing and defining proposed grades, making profiles, etc., for estimating the cost of laying water pipes, office records, etc., . .	$9,662 30
For defining street lines, making surveys and maps for street relays and extensions, office records, etc., ...	3,581 08
For surveys, maps, and examination of titles to city property, ...	3,194 44
For surveys and plans relating to parks, . .	729 14

In addition to this amount the sum of five thousand eight hundred and seventy-eight dollars has been paid for engineering services out of the Public Park account.

For surveys and plans relating to North Burial Ground, ...	$319 30
For surveys, plans, and estimates for bridges and superintendence of repairs of same, . .	5,933 48
For all work relating to harbor and river improvements, ...	149 95
For all work relating to public buildings, . .	1,959 45
For office work, including clerk hire, etc. . .	2,900 39
For all other miscellaneous work, including location of telegraph and telephone poles, meteorological observations, cove basin, etc., . .	3,609 06

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METEOROLOGICAL.

There are now set up and in operation under the direction of this department, the following meteorological instruments:

1 self-registering barometer,
1 " " thermometer,
1 " " anemometer,
1 " " anemoscope,
1 " " rain gauge,
1 standard barometer,
1 " thermometer,
1 " hygrometer,
1 " rain gauge,
1 maximum thermometer,
1 minimum "

The following tables show the record of meteorological observations that have been kept and compiled during the year, viz.:

One table showing the depth of rain and melted snow that fell during each storm, and the duration of each storm in hours during the year. This table is a continuation of eighteen similar tables, covering a period from 1877 to 1894, inclusive, that were published in the reports of the city engineer for the years 1891, 1892, 1893 and 1894. A summary is also given following this table, showing the number of times, from 1877 to 1895, inclusive, that the depth of rainfall of each storm has been the nearest to a series of amounts ranging from one one-hundreth of an inch to eight inches.

One table showing the monthly and annual depth of rain and melted snow expressed in inches from 1832 to 1895, inclusive; also the amounts that have fallen from January 1st to the end of each month, inclusive, during each year.

Twelve tables showing the daily observations during each month.

One table showing the monthly summary for the year 1895, and the yearly summary of each year since 1880.

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Three tables showing the monthly temperatures since 1880, viz.: the mean temperature, the maximum temperature and the minimum temperature.

The record of meteorological observations is computed and hektographed monthly, and about twenty-four copies are sent to people who are particularly desirous of obtaining the same for scientific investigation or practical use. A great deal of detailed and general information in regard to meteorology is also furnished to people who make inquiries, as well as to representatives of the press.

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Rainfall at Providence, R. I.

The first of the following tables shows the amount or depth of rain and melted snow that fell during each storm, expressed in inches, and the duration of each storm, expressed in hours, for the year 1895, at Hope Reservoir. The duration of each storm is not in the majority of cases the number of hours of actual rainfall, but the number of hours from the commencement to the end of the storm. The second table is the summary previously mentioned.

* One storm, total amount 4.06 inches.

† The storm commenced in the preceding month.

‡ The storm ceased in the following month.

§ Two separate storms.

U. S. Signal Service gauges of the old pattern were used in measuring the rainfall from 1878 to 1885, inclusive. These gauges were afterwards found to be slightly in error, owing to their faulty construction. It was not possible, under the circumstances, to determine a correction to apply to the amount that fell during each storm, consequently the amounts in the second table will not agree with the amounts given in the third table of the total monthly and yearly amounts of rainfall from 1832 to 1895, inclusive, as, in this last mentioned table the amounts have been corrected by an average correction that was determined for the purpose.

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Depth of Rainfall and Melted Snow and Duration of each Storm.

For the Year 1895.

Day of Month.	Jan.		Feb.		March.		April.		May.		June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.		Day of Month.
	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	Amt.	Hrs.	
1													†.07	7							*‡2.02	4			1
2			.20	6	.42	10	.45	28													.85	17	.26	10	2
3																									3
4			.20	12	.06	3					.99	4	.96	17											4
5																							.60	28	5
6	.74	14									.10	3	.61	12											6
7			1.50	11	1.21	22									.45	3									7
8	.32	19					1.42	34	.04	2			1.21	14			.42	5	.64	4					8
9																									9
10	1.35	22																							10
11															.65	12	.27	10							11
12									1.32	21									5.28	39					12
13	.04	10			1.15	11	3.66	31					.28	6											13
14									.88	16			.57	3					.12	6	.51	26			14
15					.30	20	.04	14																	15
16	.55	15											.38	10											16
17															.04	½					.53	6			17
18	.30	9							.86	10					.55	6	.14	12							18
19																					.39	4			19
20																									20
21	.23	14					.29	7	.31	12			.24	1							.44	11	.57	9	21
22																									22
23																									23
24											.03	5									.07	16	.02	1	24
25					.07	3	.67	2			.49	5									.08	10			25
26	2.01	9							.20	7											1.77	13			26
27					.10	8	§.27	12	.35	1	.97	26	.07	1			1.02	8					.33	3	27
28	.20	14													.06	1									28
29																									29
30							.05	11									.35	5					1.00	14	30
31									.42	2	‡.08	2	.25	3	.96	2			*‡2.04	8					31
Totals..	5.74	126	1.90	29	3.31	77	6.25	139	3.88	71	2.66	45	4.64	74	2.71	25	2.20	40	8.08	57	6.66	107	2.78	65	Totals.

Totals for the year. Amount 50.81 inches. Duration 855 hours.

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SUMMARY.

Table showing the number of times that the total rainfall of each storm from 1877 to 1895, inclusive, at Hope Reservoir, has been the nearest to a series of amounts ranging from one-hundredth of an inch to eight inches.

YEAR.	AMOUNTS IN INCHES.																												Total rainfall for the year.	YEAR.
	1/100	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	5	6	7	8	
1877....	1	2	2	4	3	3	3	0	4	3	4	2	4	4	3	0	1	1	0	1	0	0	0	0	0	0	0	0	0	48.80	1877
1878 ...	1	6	7	6	7	3	6	2	2	2	4	2	1	3	4	2	3	1	0	1	0	0	0	1	0	0	0	0	0	59.32	... 1878
1879....	3	11	12	3	9	9	5	4	4	1	3	1	6	2	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	47.64	1879
1880....	2	17	9	4	8	4	5	3	4	2	5	4	5	2	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	48.28	1880
1881....	4	14	8	7	7	5	3	5	2	2	4	1	4	1	3	0	2	1	0	0	1	0	1	0	0	0	0	0	0	52.96	1881
1882...	0	8	6	7	9	4	5	2	3	2	7	5	1	3	2	0	1	0	0	1	0	0	0	0	1	0	0	0	0	51.84	1882
1883....	4	15	13	7	5	3	4	3	4	3	4	3	3	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	45.71	1883
1884....	5	7	9	6	7	6	4	5	1	4	3	3	6	3	5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	57.50	1884
1885....	11	11	5	7	3	3	1	3	3	3	5	2	3	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	43.57	1885
1886....	5	14	8	4	5	4	5	5	3	3	4	5	1	2	2	1	0	0	0	1	0	0	0	0	0	0	0	0	1	52.02	1886
1887....	4	16	11	4	4	6	4	6	4	1	3	4	7	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	50.98	1887
1888....	15	16	11	4	7	3	4	4	3	3	3	1	2	3	1	2	2	1	2	2	3	0	0	0	0	0	0	0	0	68.44	1888
1889....	14	17	9	7	4	3	6	5	1	4	0	8	2	4	5	0	1	0	1	0	0	0	0	0	0	0	0	0	0	55.91	1889
1890....	9	20	8	13	6	3	4	3	2	2	4	3	4	3	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	50.60	...1890
1891....	10	7	3	7	4	7	4	1	5	4	4	5	4	2	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	53.19	...1891
1892....	10	23	9	5	4	3	3	6	1	1	3	2	5	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	37.39	1892
1893....	14	15	4	9	11	4	1	4	3	0	3	5	5	1	2	0	0	1	2	0	1	0	0	0	0	0	0	0	0	51.28	... 1893
1894....	12	17	8	6	5	7	6	1	2	4	2	2	6	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	42.27	...1894
1895....	6	14	6	11	9	5	7	2	0	2	6	5	2	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	50.81	1895
Totals..	130	250	153	121	122	90	80	69	51	46	71	68	76	38	37	12	16	7	6	6	7	4	2	1	2	1	0	0	1	963.51	Totals.
Means..	6.8	13.2	8.1	6.4	6.4	4.7	4.2	3.6	2.7	2.4	3.7	3.6	4.0	2.0	1.9	0.6	0.8	0.4	0.3	0.3	0.4	0.2	0.1	0.1	0.1	0.1	0	0	0.1	50.71	Means.

, from which this table was compiled, were observed and recorded, the direction of the City Engineer.

uary to ober, usive.	November.	January to November, inclusive.	December.	For the year.	YEARS.

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Total Movement.	WEATHER, STATE OF THE ATMOSPHERE — AMOUNT OF CLOUD. 7 A. M.	1 P. M.	7 P
286	Fair..... 8	Fair.. 2	Clear...
157	Clear..... 0	" 2	" ....
29	" 0	" 8	Threater
246	Fair. 9	" 3	Clear ...
177	Clear.. 0	" 2	Hazy...
148	Threatening..10	Rain.....10	Rain....
175	Fair..... 7	Threatening..10	Threaten
151	Foggy..... 8	" ..10	Snow ...
109	Threatening..10	Fair..... 9	Hazy...
240	" ..10	Hail..... 10	Misty....
191	Light Rain..10	Threatening.10	Fair. ...
65	Hazy.. 4	Hazy 8	Hazy...
265	Foggy.....10	Fair..... .. 2	Light Sn
209	Fair..... 1	" 2	Fair. ...
161	" 3	" 6	" ....
91	" 9	Rain.....10	Snow....
180	Clear..... 0	Clear..... 1	Clear....
174	Fair..... 1	Fair..... 8	Fair. ...
196	" 2	" 5	Clear ...
114	" 2	Clear..... 0	" ....
148	" 4	Threatening..10	Light R
194	" 2	Fair..... 5	Fair....
249	Clear..... 0	" 3	Clear....
216	" 0	" 2	" ....
182	" 0	Clear..... 0	" ....
350	Hail..... 10	Threatening.10	" ....
332	Fair..... 2	Fair..... 4	" ....
224	" 2	" 4	Fair. ...
100	Snow.....10	Snow.....10	Clear....
48	Hazy..... 9	Fair..... 9	Hazy ...
76	" 5	" 6	Clear....
177	4.8	5.8	

5.0

Clear.....
Fair.....
Variable.....
Rain or snow fell on.....
All others.....

The velocity of the wind is in miles, and is th

of snow 19.50 inches.

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or the Month of July, 1895.

Total ovement.	WEATHER, STATE OF THE ATMOSPHERE AMOUNT OF CLOUD. 7 A. M.	1 P. M.	7 P.
129	Rain.....10	Fair..... 4	Fair.....
157	Fair..... 2	" 4	" .....
115	" 2	" 3	" .....
141	Threatening..10	Threatening..10	Light Rai
268	Fair..... 4	Fair..... 8	Fair.....
257	Rain.....10	Threatening.10	" .....
147	Light Fog.... 9	Fair..... 6	" .....
228	Hazy..... 0	" 2	" .....
163	Light Rain..10	Rain 10	" .....
206	Fair..... 3	Fair..... 2	" .....
87	" 3	" 9	" .....
168	Clear..... 0	" 4	" .....
126	Foggy.....10	Threatening..10	Threaten
157	Fair..... 2	Fair..... 5	Fair.....
110	" 5	" 5	" .....
107	Misty.....10	Rain.....10	Foggy....
137	Threatening..10	Fair..... 8	" .. .
118	Light Fog... 5	Hazy..... 0	Fair.....
109	Clear..... 1	Fair..... 2	" .....
60	Fair..... 7	" 6	" .....
75	" 4	" 6	" .....
77	Threatening.10	" 6	" .....
150	Fair..... 7	" 5	" .....
78	" 2	" 4	" .....
162	" 8	" 3	" .. .
117	Hazy..... 1	" 3	Hazy....
172	" 0	" 8	Threaten
209	Fair..... 5	" 4	Fair.....
123	Clear..... 0	" 3	" .....
292	" 0	" 7	" .....
144	" 0	" 5	" .....
145	4.8	5.6	

5.1

Clear.....
Fair.....10
Variable.....
Rain or snow fell on.....12
All others.....

The velocity of the wind is in miles, and is th

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).														
	. of days it was					WEATHER.						RAIN AND SNOW.	
						Atmosphere. No. of days it was							
S. W.	W.	N. W.	Variable.	Mean Velocity		Clear.	Fair.	Variable.	Rain or Snow.	All others.	Mean amount of Cloud.	Amount of rain or melted snow in inches.	Depth of snow in inches

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WATER WORKS.

Water pipes have been laid in the following streets during the year 1895, which have been measured up, located and plotted.

Street.	Between what Points.	Sizes and Lengths of Pipes Laid.			
		6 inch.	8 inch.	12 inch.	16 inch.
Academy avenue	Termination south	109.76			
Alger avenue	South of Whitney street to northerly termination	1,127.82			
Allen's avenue	Public and Rhodes street	13.45	2.31	427.07	
Allen's avenue, Cranston	Albert and Columbia avenues	.....	279.43		
Alma	Termination to Pekin street	168.07			
Althea	Termination to termination, near Dexter street	363.37			
Andrews avenue	Termination northwest	115.06			
Apponaug avenue, Warwick	Lincoln avenue south	*1,174.80			
Arnold avenue, Cranston	Termination east	105.53			
Asia street, Cranston	Cranston street west	332.96			
Autumn	Rachel and Rugby streets	157.20			
Barrows street, Johnston	Termination to near Reid street	118.00			
Bayview avenue, Cranston	Termination east	266.50			
Bedford	Admiral and Cornwall streets	778.13			
Bell	At Broadway	23.88			
Berkshire	Admiral and Cornwall streets	794.79			
Blackamore avenue, Cranston	Pontiac avenue and Summer street	1,163.22			
Bolander	Termination to Grandview street	42.89			
Brayton avenue, etc.	West Exchange street north	.....			
Broadway	Barton and Fountain streets	5,707.84			281.15
Butler avenue	Pitman and Seekonk streets	240.53			
California avenue	Termination east to Maryland avenue	234.89			
Chatlet street, Johnston	Hartford avenue north	427.25			
Chestnut avenue, Cranston	Pontiac avenue and Summer street	1,180.75			
City Yard	Termination west	23.68			
Cleveland avenue, Cranston	Cranston and Transit streets	454.39			
Cliff	Valley street northwest	182.02			
Comstock place	Prairie avenue east	361.13			

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WATER WORKS.—*Continued.*

STREET.	BETWEEN WHAT POINTS.	SIZES AND LENGTHS OF PIPES LAID.			
		6 inch.	8 inch.	12 inch.	16 inch.
Cove	At West Exchange street	17.87			
Devine	Swan street to south of Sayles street	239.77			
Dorrance	Termination southeast	3.20			
Doyle avenue	Termination east to Olney street	383.10			
Doyle avenue	Termination east	198.05			
Dye	At Broadway	26.39			
East avenue	Cypress street and Rochambeau avenue	3.59	2.33	2,304.82	
Eaton	Termination west to Elmhurst avenue	757.16			
Edith	At Calais street	15.92			
Eighth	North Main street east	142.15			
Elmhurst avenue	Eaton and Smith streets	911.71	1.00		
Ernest street, etc	Eddy street to east of Allen's avenue		2,083.29		
Eudora	Eddy street east	328.37			
Fair street, Warwick	Termination southwest	964.93			
Faith	Burrington street south	157.25			
Federal	At Broadway	23.51			
Forest	Termination to Camp street	470.82			
Forest	Termination to East avenue	49.42			
Francis	Termination north to Railroad street		546.82		
Frank	Beacon avenue and Plain street	491.78			
Frankfort	South of Balch street south	84.25			
Fruit	Gordon avenue and Plum street	121.87			
Garden street, Cranston	Termination south	39.41			
Garfield avenue, Cranston	Cranston street south	158.35			
George	Termination to Hope street	298.10			
Globe	At Eddy street	93.25			
Glover	Kimball and Rowan streets	248.11			
Grandview	Bolander and Highland streets	233.27			
Hamilton	Laura street and Potter's avenue	250.95			
Hamlin	Elmwood avenue west	317.80			
Harris avenue	Termination east to Acorn street			1,365.11	
Hathaway	Elmwood avenue west	668.01			

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WATER WORKS.—*Continued.*

STREET.	BETWEEN WHAT POINTS.	SIZES AND LENGTHS OF PIPES LAID.			
		6 inch.	8 inch.	12 inch.	16 inch.
Hawkins	Charles street east	.....	179.88		
Hawkins	Branch avenue and Charles street	408.05			
Hayward street, Cranston	Park avenue and Norfolk street	256.80			
High Service avenue, North Providence	Smith street north	401.99	1.94		
Hilton	Termination to Willard avenue	299.15			
Indiana avenue	Termination west to Eddy street	802.46			
Indiana avenue	Maryland avenue east	484.90			
Jefferson avenue, Warwick	Lincoln avenue south to termination	*1,658.19			
Jones	Termination east to Bradford street	138.80			
Knowles	Royal and Wilkins streets	194.80			
Kossuth	Bowdoin and Putnam streets	257.65			
Larch	Termination to East avenue	153.92			
Laurel avenue	Butler avenue to east of Grotto avenue	576.18			
Lawrence street, Johnston	Harlan and Plainfield streets	294.95			
Lewis street, Johnston	Latham street northeast	57.35			
Lexington avenue	Niagara street east	249.65			
Lilac	At Dexter street	29.57			
Lillian avenue	Baxter and Broad streets	672.31			
Lincoln avenue, Warwick	Apponaug avenue to land of city	4,448.43	*2.06		
Longmont	Admiral and Yorkshire streets	606.79			
Lorea	Cranston street northwest	383.45			
Mason	At West Exchange street	18.04			
Miller avenue	Broad street to Roger Williams Park	2,107.98			
Norfolk street, Cranston	Hayward street and Pontiac avenue	183.45			
Oakland avenue, Cranston	Pontiac avenue and Summer street	1,183.77			
Pacific avenue	Tyler and Van Zandt streets	199.92			
Pacific avenue	Balch street south	180.07			
Payton	Termination west	47.32			
Pettaconset Pumping Station, Cranston	Lincoln Park supply	.....	891.66		
Pettaconset Pumping Station, Warwick	Lincoln Park supply	.....	874.45		
Pioneer street, Johnston	Termination to Hartford avenue	934.09			
Pitman	Termination to Butler avenue	167.00			

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WATER WORKS.—*Continued.*

STREET.	BETWEEN WHAT POINTS.	SIZES AND LENGTHS OF PIPES LAID.			
		6 inch.	8 inch.	12 inch.	16 inch.
Planet	South Water street northeast	74.75			
Pontiac avenue, Cranston	Blackamore avenue and Richard street	84.20	811.71		
Porter	Baker street northeast	216.45			
Princess avenue, Cranston	Termination north	514.30			
Promenade	At Gaspee street		46.51		
Promenade	East of Stillman street east	3.17			
Rachel	At Autumn street	37.07			
Railroad	Francis and Gaspee streets	502.92			
Reynolds avenue	Termination east to Taylor street	281.28			
Rhodes	Termination to Allen's avenue	61.65			
Ridge street, Cranston	Cranston street west	333.32			
Rockingham	Academy avenue west	256.75			
Roger Williams Park	Babcock street and Miller avenue	300.73			
Rolfe street, Cranston	At Pontiac avenue		48.93		
Royal	Termination to Knowles street	35.55			
Sabin	At Broadway	24.31			
Salina	Cheshire and Suffolk streets	1,312.52			
Saunders	Lester and Perkins streets	260.74			
School street, Cranston	Near Cranston street southeast aand northeast	520.95	63.60		
School street, Johnston	Lexington and Trenton streets	546.19			
Sims avenue	Harris and Kinsley avenues	748.00			
Smith street, North Providence	At High Service avenue		26.26		
Stillman	Gaspee and Promenade streets	534.56			
Suffolk	Admiral and Salina streets	344.90			
Summit avenue	Rochambeau avenue north	157.62			
Taber avenue	Irving avenue north		156.45		
Taylor	Chester and Marlborough avenues	215.40			
Thurber's court	Thurber's avenue north	156.32			
Tyler	Termination to Pacific avenue	20.40			
Union	At Fountain street	33.51			
Van Zandt	Hamburg and Jackson avenues	485.75			
Vermont avenue	Termination east to Maryland avenue	194.56			

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WATER WORKS.—*Continued.*

STREET.	BETWEEN WHAT POINTS.	SIZES AND LENGTHS OF PIPES LAID.			
		6 inch.	8 inch.	12 inch.	16 inch.
Vinton	At Broadway	26.80			
Waterman avenue, Cranston	Pontiac avenue and Summer street	1,169.20			
Waverly	Huntington avenue east	141.40			
Wayne	Termination west	71.30			
West Exchange	Aborn and Sabin streets	918.56	2.31	†416.05	
Whipple avenue, Cranston	Cory avenue and Cranston street	383.14			
Whitney	Termination to Alger avenue	16.12			
Woodward avenue	Termination to Dakota street		117.34		
	Totals in feet	51,715.66	6,138.28	4,513.05	281.15

The total amount of pipes laid during the year is 11.8652 miles. The total number of miles that the water pipe system has been increased during the year is 11.5151 miles.

* An amount equal to the estimated cost of material and labor of doing this work was deposited with the City Treasurer.

† Includes 207.28 feet of 12-inch to replace 6-inch pipes taken out.

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Pipes taken out:

Old city yard, from old Gaspee street northwest and south, about 1098.43 feet of 6-inch.
Old Gaspee street, from near Kinsley avenue south, 424.60 feet of 10-inch.
West Exchange street, from Sabin street west, 207.28 feet of 6-inch.

The above does not include pipes taken out temporarily or pipes taken out and relaid without changing the length.

Pipes abandoned, etc.:

Battey street, at Broadway, 37.00 feet of 6-inch.
Shepard street, at Broadway, 38.40 feet of 6-inch.
Tobey street, at Broadway. 36.95 feet of 6-inch.

Forty-seven hydrants have been set during the year.

The following table shows the location and sizes of pipes to which the hydrants set in 1895 are connected:

Location.	Sizes of Pipes.				
	6 inch.	8 inch.	10 inch.	12 inch.	16 inch.
Albert avenue, Cranston, north side, 248 feet east of Broad street. (Post)	1				
Alger avenue, northeast corner of Depew street	1				
Alger avenue, east side, 4 feet south of range south line of Crescent Terrace	1				
Back street, east side, 56 feet south of Lock street	1				
Benedict street, Cranston, east side, on ranges south line of Cato street. (Post)	1				
Brayton avenue, west side, 145 feet north of West Exchange street	.....	.....	.....	.....	1
Broadway, south side, 1 foot east of range east line of Bradford street	1				
Broadway, southwest corner of Tobey street	1				
Broadway, south side, 9 feet east of Vinton street	1				
Brook street, Cranston, northeast side, 304 feet southeast of Plainfield street. (Post)	1				
Chatlet street, Johnston, east side, 214 feet north of Hartford avenue	1				
Cypress street, southeast corner of Knowles street	1				
East avenue, east side, 6 feet south of Woodbine street	.....	.....	.....	1	
Eaton street, north side, 3 feet east of range west line of Elmhurst avenue	1				
Ernest street, northwest corner of Allen's avenue	.....	1			
Francis street, east side, 2 feet north of range south line of Railroad street	.....	1			
George street, north side, 228 feet east of Hope street	1				
Glover street, north side, 5 feet east of Kimball street	1				
Grandview street, north side, 102 feet west of range west line of Bolander street	1				
Hathaway street, north side, 173 feet west of Knox street	1				
Hedley street, southwest corner of Shove street	1				
Indiana avenue, north side, 426 feet East of Eddy street.	1				

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Location.	Sizes of Pipes.				
	6 inch.	8 inch.	10 inch.	12 inch.	16 inch.
Lilac street, northwest corner of Dexter street	1				
Lillian avenue, north side, 306 feet east of Broad street	1				
Longmont street, northwest side, 5 feet southwest of Yorkshire street	1				
Miller avenue, south side, 449 feet west of Broad street	1				
Miller avenue, south side, 989 feet west of Broad street	1				
Miller avenue, south side, 1,533 feet west of Broad street	1				
Miller avenue, south side, 2,046 feet west of Broad street	1				
Nichols street, Cranston, north side, 342 feet east of Norton avenue. (Post)	1				
N. Y., N. H. and H. Railroad freight yard, 118 feet southeast of Gaspee street, at 15 feet northeast of first angle northeast of Stillman street*	.....	.....	1		
N. Y., N. H. and H. Railroad freight yard, 187 feet southeast of Gaspee street, at 15 feet northeast of first angle northeast of Stillman street*	.....	.....	1		
N. Y., N. H. and H. Railroad freight yard, 257 feet southeast of Gaspee street, at 15 feet northeast of first angle northeast of Stillman street*	.....	.....	1		
Promenade street, north side, 246 feet east of Stillman street	1				
Salina street, north corner of Berkshire street	1				
School street, Johnston, north side, 275 feet east of Trenton street	1				
Shaw avenue, Cranston, northeast corner of Broad street. (Post)	1				
Silver Spring street, northwest side, 452 feet southwest of Branch avenue	.....	1			
Sims avenue, northeast corner of Watson street	1				
Sims avenue, east side, 11 feet north of Harris avenue	1				
Stillman street, northeast side, 153 feet northwest of Promenade street	1				
Van Zandt street, north side, 137 feet east of Jackson avenue	1				
Warwick avenue, Cranston, east side, 489 feet northeast of Park avenue. (Post)	1				
Webster avenue, Cranston, northeast corner of Bailey street. (Post)	1				
West Exchange street, south side, 117 feet east of Cove street	1				
West Exchange street, south side, 9 feet west of Mason street	1				
Woodward avenue, southeast corner of Dakota street	.....	1			
Totals	36	4	3	1	1

* These hydrants are the property of the N. Y., N. H. and H. R. R. Co.
One hydrant has been taken out of the old city yard.
One hydrant has been taken out of old Gaspee street, east side, 533 feet south of Promenade street.

The total number of hydrants to December 31, 1895, is sixteen hundred and thirty-eight including eighty-two in the town of Johnston. This number does not include sixty-three post hydrants which are set in the town of Cranston.

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The locations of the following hydrants have been changed:

Frank street, northwest corner of Plain street, formerly on Plain street, west side, 412 feet north of Lockwood street.
Harris avenue, northwest corner of Dale street, formerly on Harris avenue, north side, 722 feet east of Eagle street.
India street, northeast corner of Benefit street, formerly on Benefit street, northwest corner of India street.

Lines and grades have been furnished for changing the following hydrants:

2 on California avenue.
1 on Concord street, Johnston.
1 on Henderson street.
1 on Massachusetts avenue.
1 on Pioneer street, Johnston.
1 on Washington avenue.
1 on Wood street.

The above does not include changes that have been made when lines and grades were not furnished.

Lines and grades have been furnished for changing water pipes in the following streets:

Abbott street, 352 feet of 6-inch pipes taken out and relaid.
Burrington street, 449 feet of 8-inch pipes lowered.
California avenue, 634 feet of 6-inch pipes lowered.
College street, 34.73 feet of 24-inch pipes relaid.
Commodore street, 301 feet of 6-inch pipes lowered.
Concord street, Johnston, 382 feet of 6-inch pipes lowered.
Early street, 321 feet of 6-inch pipes lowered.
East avenue, 340 feet of 6-inch pipes lowered.
Forest street, 110 feet of 6-inch pipes lowered.
Greene street, Cranston, 919 feet of 6-inch pipes lowered.
Henderson street, 248 feet of 6-inch pipes raised.
Highland street, 61 feet of 6-inch pipes taken out and relaid.
Indiana avenue, 760 feet of 6-inch pipes lowered.
Jillson street, 256 feet of 6-inch pipes lowered.
Massachusetts avenue, 857 feet of 6-inch pipes lowered.
Noyes avenue, 318 feet of 6-inch pipes lowered.
River avenue, 1082 feet of 12-inch pipes lowered.

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Silver Spring street, 52 feet of 8-inch pipes lowered.
South Main street, 24.52 feet of 24-inch pipes relaid.
South Main street, 9.77 feet of 16-inch pipes relaid.
South Main street, 56 feet of 16-inch pipes lowered.
Wadsworth street, 244 feet of 6-inch pipes lowered.
Washington avenue, 818 feet of 6-inch pipes lowered.
Wood street, 565 feet of 6-inch pipes lowered.

The above does not include changes that have been made when lines and grades were not furnished.

Following is a statement of the length of each size of water pipes in the ground December 31, 1895, considered as mains :

Sizes of Pipes.	Length in Feet.	Length in Miles.
36-inch	10,084.00	1.9098
30 "	59,912.70	11.3471
24 "	43,595.20	8.2567
20 "	9,626.59	1.8232
16 "	33,348.75	6.3161
12 "	85,367.82	16.1681
10 "	14,232.81	2.6956
8 "	246,486.54	46.6831
6 "	1,061,679.63	201.0757
Totals	1,564,334.04	296.2754

6357.89 feet of 4-inch pipes, not included in the above, are laid at the city yard, Roger Williams Park and North Burial Ground.

Included in the above table are the following approximate lengths of pipes which are laid in adjoining towns:

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Cranston.		Johnston.		North Providence.		Pawtucket.		Warwick.	
Sizes of Pipes.	Length in Miles.	Sizes of Pipes.	Length in Miles.	Sizes of Pipes.	Length in Miles.	Sizes of Pipes.	Length in Miles.	Sizes of Pipes.	Length in Miles.
36-inch.	1.9096	30-inch.	0.0587	30-inch.	0.0037	12-inch.	0.0003	8-inch.	0.1660
30 "	4.5134	12 "	0.0451	24 "	0.5386			6 "	1.8988
24 "	0.1807	8 "	6.7218	12 "	0.0154				
12 "	1.8791	6 "	9.2472	8 "	0.5064				
8 "	5.8018			6 "	0.4759				
6 "	15.8299								

Total length of pipes laid in adjoining towns 49.7426 miles.

The approximate cost of laying water pipes, with appurtenances, except hydrants, and including iron at $30 per long ton, is:

For	4-inch	$0.498	per foot.
"	6 "	0.725	" "
"	8 "	0 973	" "
"	10 "	1.244	" "
"	12 "	1.593	" "
"	16 "	2.403	" "
"	20 "	3.359	" "
"	24 "	4.454	" "
"	30 "	6 348	" "
"	36 "	8.540	" "

The number of meters in use is 13,993.

The number of service pipes in use is 18,763.

The average daily use of water per service for the year 1895 has been 475 gallons.

The population of the city is estimated at 145,472, and the population supplied in the suburbs is estimated at 11,500.

The water receipts for 1895 were $471,070.

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The net cost of maintenance for 1895 was $66,396.

The net cost of the water works construction from November 8, 1869, to January 1, 1896, is $6,119,085.39 upon which there has been a revenue for water sold of $6,877,646.99.

Table showing the length in miles of water pipes laid each year since the construction of the water works was commenced:

YEAR.	Diameter in Inches.									Total for each year.	Total at the end of each year.
	6	8	10	12	16	20	24	30	36		
1870....	.....	.....	.....	.....	.....	.....	.....	1.8799	.3176	2.1975	2.1975
1871....	15.3309	3.5902	.7610	.7731	.6795	1.1375	3.9189	3.8938	.6305	29.7154	31.9129
1872....	29.9896	3.9473	.5038	1.2708	1.0564	.0093	.8169	1.2472	.....	38.2913	70.2042
1873....	14.0023	3.5199	.3373	2.5723	1.2258	.0956	.6843	1.1464	.....	23.5339	93.7381
1874....	8.5837	2.2131	.0689	.5422	1.1165	.0083	.4973	2.9741	.9451	16.9492	110.6873
1875....	7.0034	.8127	.2377	.9080	.3161	.....	.1670	.0473	.0167	9.5089	120.1962
1876....	7.8421	4.1472	.0813	1.3201	.5822	.....	.....	.....	.....	13.9227	134.1189
1877....	7.2277	1.6340	.....	.7305	.2100	.....	.....	.....	.....	9.8022	143.9212
1878....	3.5680	.9483	.....	.4521	.2963	.0458	.....	.....	.....	5.3305	149.0262
1879...	2.3008	.0501	.....	.0119	.....	.....	.....	.....	.....	2.3628	151.3890
1880....	2.8427	.2266	.1080	.....	.....	.....	.....	.....	.....	3.1773	154.5663
1881....	3.8886	.8171	.0262	.....	.....	.....	.....	.1063	.....	4.8381	159.4044
1882....	5.7777	.8547	.6709	.0119	.....	.....	.....	.....	.....	7.3151	166.7196
1883 ..	4.7739	.9652	.....	1.6513	.5471	.0017	.....	.....	.....	7.9391	176.6755
1884...	6.2073	.4385	.....	.2084	.....	.....	.....	.....	.....	6.8542	183.8386
1885....	4.1239	1.0814	.....	.3151	.....	.....	.....	.....	.....	5.4706	189.3045
1886....	3.7713	1.0593	.....	.1080	.....	.....	.....	.....	.....	4.9387	194.2298
1887....	5.9473	.5572	.....	.0522	.....	.....	2.6080	.....	.....	9.1597	203.3894
1888....	3.7247	1.4477	.....	.6160	.0326	.....	1.0861	.0037	.....	6.9109	210.3669
1889....	5.4581	1.2673	.....	1.1197	.....	.....	.0077	.....	.....	7.8529	218.0101
1890....	6.4927	1.5713	.....	.4384	.....	.5250	.....	.....	.....	9.0274	226.4792
1891....	10.7147	5.2277	.1582	1.1683	.....	.....	.....	.0485	.....	17.3125	243.5319
1892....	11.6073	2.3326	.....	.3559	.0467	....	.....	.....	.....	14.3425	257.7153
1893....	12.6447	3.2813	.....	.1935	.2042	.....	.0254	.....	.....	16.3491	273.2654
1894....	8.1602	2.8566	.0002	.5873	.....	.....	.....	.....	.....	11.6042	284.7603
1895...	9.7946	1.1626	.....	.8547	.0652	.....	.....	.....	.....	11.8652	296.2754

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The figures given in the last column of the table are the total lengths of useful water pipes, considered as mains, in the ground at the end of each year. The addition of the figures in the other columns of the table will not agree with the figures in the last column, as in a number of cases smaller sizes of pipes were temporarily laid in the first place, and larger sizes substituted later on, and at times pipes have been removed from the ground or abandoned.

The monthly and annual and the average daily and monthly consumption of water, including waste and leakage, during the year is shown by the following table :

Months.	Consumption per month.	Average monthly consumption.	Average daily consumption per month.	Average daily consumption for the year.
January	279,801,977		9,025,870	
February	274,972,219		9,820,436	
March	266,733,203		8,604,297	
April	230,987,483		7,699,583	
May	273,065,220		8,776,297	
June	284,755,759		9,491,859	
July	278,801,504		8,993,597	
August	294,348,994		9,495,129	
September	273,083,726		9,102,791	
October	252,667,420		8,150,562	
November	245,783,702		8,192,790	
December	296,354,760		9,559,831	
Total	3,250,355,967			
Averages		270,862,997		8,905,085

The amount of water consumed, shown in the above table, includes the supplying of about forty-two and six-tenths

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miles of distribution pipes, located in adjoining towns, as well as supplying the greater part of the State Institutions at Cranston. A considerable quantity of water has been used during the year for irrigating at the Dexter Asylum, and also upon the improved sewerage system. Also, in the colder months, a large quantity of water has been run from the distribution pipes through small blow-offs at different points where the pipes are not sufficiently protected in crossing bridges and elsewhere, for increasing the circulation in order to prevent the water from freezing in the pipes.

The maximum consumption of water for any one day during the year 1895, was 12,022,000 gallons.

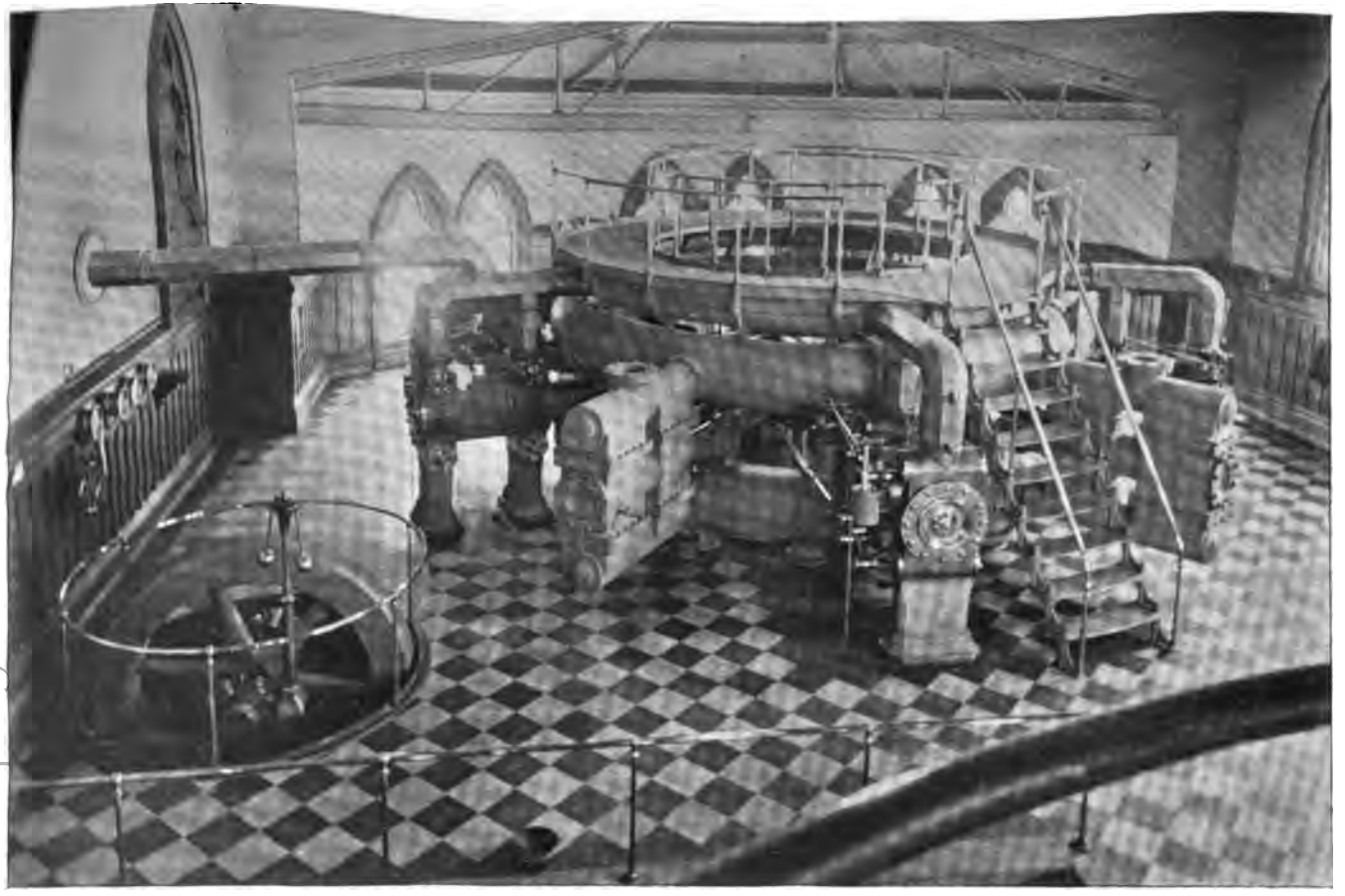
The following table shows the average daily consumption of water for each month and each year during the last nineteen years:

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Average daily consumption of water in gallons, including waste and leakage, for each month and year, from January, 1877, to December, 1895, inclusive.

Years.	Months.												For the Year.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
1877..	2,269,832	2,258,338	1,836,037	2,250,747	2,526,668	2,936,860	2,914,214	2,762,598	3,012,462	2,607,809	2,217,243	2,303,127	2,492,032
1878..	2,156,809	2,147,463	2,202,755	2,325,865	2,854,235	2,891,205	3,876,307	3,118,868	3,171,755	2,845,889	2,392,822	2,378,500	2,701,404
1879..	2,825,437	2,931,292	2,586,154	2,883,999	3,224,556	3,479,951	3,782,391	3,524,332	3,319,664	3,375,997	2,894,286	2,966,254	3,110,279
1880..	2,988,209	2,863,525	2,895,195	2,965,488	3,676,664	5,054,378	4,180,128	3,921,078	3,818,019	3,670,098	3,347,852	3,224,278	3,547,264
1881..	3,538,158	4,066,555	3,134,102	2,985,615	3,536,239	3,811,259	4,048,632	4,457,984	4,156,185	3,919,993	3,595,087	3,377,005	3,716,937
1882..	3,295,114	3,267,352	3,057,839	3,046,466	3,239,567	4,025,461	4,692,148	5,094,632	3,840,315	3,399,707	3,327,138	3,647,242	3,665,427
1883..	3,942,644	3,743,629	3,910,265	3,430,723	3,825,596	4,638,322	5,238,463	5,183,282	4,705,763	3,813,735	3,674,931	3,575,148	4,143,798
1884..	4,237,205	3,874,254	3,902,594	3,426,872	3,791,939	4,695,192	4,380,645	4,061,473	4,519,765	4,237,719	3,670,442	3,994,750	4,068,373
1885..	4,484,038	4,733,054	4,796,437	4,102,809	4,098,028	5,443,199	5,561,358	5,014,507	4,494,512	4,371,991	4,196,599	4,706,766	4,730,556
1886..	4,824,687	4,750,859	4,827,113	4,333,738	4,526,374	4,928,967	6,023,126	4,877,404	4,936,173	4,619,404	4,245,827	4,937,718	4,822,125
1887..	5,065,692	4,903,199	4,837,961	4,406,544	4,902,265	5,164,882	5,579,502	5,005,397	5,082,313	4,801,669	4,401,758	5,102,318	4,939,982
1888..	5,435,297	5,792,769	5,391,102	4,863,637	4,843,517	6,171,341	6,508,645	5,871,233	5,322,467	5,337,683	5,175,399	5,511,404	5,518,691
1889..	5,721,836	7,338,677	5,808,799	5,271,386	5,754,508	6,144,568	5,691,032	5,590,145	5,525,370	5,406,870	5,167,126	6,144,844	5,786,961
1890..	6,335,263	6,788,927	6,278,058	6,843,612	6,602,267	6,896,124	8,113,576	7,134,931	6,725,043	6,278,268	6,084,380	6,826,615	6,743,047
1891..	6,351,130	6,532,755	6,723,630	6,672,833	7,560,679	7,749,487	7,726,381	7,779,081	7,572,560	7,533,784	7,317,186	7,691,110	7,272,070
1892..	7,649,986	7,830,188	7,615,924	7,266,370	6,767,882	8,371,779	9,304,373	9,114,400	8,632,279	7,995,487	7,647,730	8,479,663	8,058,414
1893..	9,305,613	8,847,526	8,737,623	8,073,662	8,583,598	9,915,808	10,778,434	10,502,028	9,482,852	8,789,960	7,851,148	8,608,893	9,128,563
1894..	9,107,465	9,067,594	9,089,355	8,727,006	9,971,564	11,280,817	12,394,564	10,758,910	10,217,653	10,199,980	8,864,733	9,075,540	9,904,434
1895..	9,025,870	9,820,436	8,604,297	7,699,583	8,776,297	9,491,859	8,993,597	9,495,129	9,102,791	8,150,562	8,192,790	9,559,831	8,905,065

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Contracts have been awarded for furnishing and erecting a new pumping engine and two new boilers at Hope station. The entire plant should be ready for service about the first of June of the coming year.

The pumping engine, which is to be furnished and erected by the Holly Manufacturing Company of Lockport, N. Y., is to be a Gaskill Horizontal Compound Condensing Crank and Fly-wheel High Duty Pumping Engine, having a capacity of five million gallons per twenty-four hours. This engine is to take the place of the low duty Corliss pumping engine.

A view, above the engine room floor, of the low duty Corliss pumping engine, mentioned above, is shown by the inserted plate. This engine was erected in 1873 and was designed for pumping directly into the high service mains. At the trial test the engine developed a duty of about twenty-five million foot pounds while pumping at an average rate of about two million gallons per twenty-four hours.

The boilers are to be furnished by the Babcock and Wilcox Company of New York, and are to take the place of the old "Corliss" and "Nagle" boilers, which have been condemned.

An electric lighting plant for the main engine house at Pettaconset pumping station was contracted for in October and is now being put in.

The new Worthington Vertical Triple-expansion High Duty Pumping Engine, of fifteen million gallons capacity per twenty-four hours, that has been erected at Pettaconset pumping station, was turned over to the city by the contractor for regular service about the middle of May of the present year.

Lines have been marked in streets for laying water pipes equivalent to a distance of eleven and ninety-four one hundredths miles, and grades marked equivalent to a distance of

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nine and forty-four one hundredths miles. The required office data relating to the grades were furnished by the highway department of the office when requested, and such as related to the laying out of streets were furnished by the street line department.

Estimates of the cost of laying about one hundred and eleven thousand four hundred and ninety-one feet of water pipes have been made. The profiles of streets, from which to estimate the cost, have been prepared, with a few exceptions, by the highway department of the office.

Two hundred and eight construction plans for laying water pipes, and a number of other plans of a miscellaneous nature, have been made. Seven hundred and fifty-three service pipes have been sized. Estimates for payments for water pipes purchased under contract have been made. The water pipes that have been laid, including gates and hydrants, have been located, recorded and plotted. Elevator and fire supplies have been located, recorded and plotted. The daily, monthly, quarterly and yearly consumption of water of the Providence water works has been calculated, as well as the water used by the sewer maintenance department in pumping with siphons, and water furnished in large quantities, by special agreement, to manufacturers and others. The cost of pumping water and the duty of the pumping engines have been calculated.

About two thousand four hundred and sixty linear feet of the roads at Pettaconset pumping station have received a top dressing of gravel.

Preliminary surveys, over two different routes, for building a road across the land owned by the city to Lincoln Park, and surveys relative to supplying Lincoln Park with water have been made at Pettaconset pumping station. Estimates of the cost of the above mentioned road and estimates of the cost of building a bridge over the Pawtuxet river at Pettaconset pumping station also have been made.

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Considerable work has been done on the road at Fruit Hill reservoir. The keeper's house mentioned in my last report has been completed and the land around the same graded. A portion of the land on the south side of the reservoir has been cleared of stones and brush. Otherwise Fruit Hill reservoir is in its usual condition.

The records relating to meteorological observations have been kept by this department.

Following will be found a table giving a summary of water works statistics prepared in accordance with suggestions adopted by the New England Water Works Association:

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Summary of Statistics.

REPORT OF 1895.

IN ACCORDANCE WITH SUGGESTIONS ADOPTED BY THE

New England Water Works Association.

PROVIDENCE WATER WORKS, PROVIDENCE COUNTY, R. I.

Population of Providence by census of 1895,	145,472
Estimated population supplied in the suburbs,	11,500
Date of construction,	1870 to 1876.
By whom owned,	City of Providence.
Source of supply,	Pawtuxet river, in the town of Cranston.
Mode of supply,	The water is pumped from the Pawtuxet river into a storage reservoir located upon a hill about one mile distant. From this reservoir it flows into the city by gravitation, directly supplying a second storage reservoir within the city limits, and also that portion of the city which is of sufficiently low elevation to be served by gravitation. To supply that part of the city of too high an elevation to be served by these reservoirs, a third reservoir is located in the town of North Providence. The water is pumped by supplementary pumping machinery from the mains or from the second reservoir, above mentioned, into the high service reservoir. This supplementary pumping machinery can also supply the high service district, if the reservoir should be out of service, by pumping directly into the mains.

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PUMPING.

1. Builders of pumping machinery,

   a. Worthington Duplex engine, built by Henry R. Worthington.
   b. Cornish engine, built by Paulding, Kemble & Co.
   c. Corliss Vertical engine, built by George H. Corliss.
   d. Worthington Triple Expansion engine, built by Henry R. Worthington.
   e. Corliss Horizontal High Service engine, built by George H. Corliss.
   f. Nagle High Service engine, built by the Providence Steam Engine Co.

	Worthington Duplex.	Corliss Vertical.	Worthington Triple Expansion.	Corliss Horizontal High Service.	Nagle High Service.
2. Description of coal used:					
a. Kind,	Anthracite.	Anthracite.	Anthracite and Bituminous.	Anthracite.	Anthracite.
c. Size,	Pea.	Pea.	Pea.*	Egg and Stove.†	Egg and Stove.†
d. Brand,	Beaver Meadow.	Beaver Meadow.	Beaver Meadow and George's Creek Cumberland.	Lackawanna.	Lackawanna.
e. Price, per gross ton delivered,	$4.39	$4.38	$4.49	$5.12	$5.14
g. Wood, price per cord,	$4.50	$4.50	$4.50	$5.00	$5.00
3. Coal consumed for the year, in pounds,	266,000	782,850	4,225,869	120,975	730,247
4. $\frac{\text{Pounds of wood consumed.}}{8}$ = coal in pounds,	583	2,417	1,000	467	1,863

* Pea coal for heating building.
† Stove coal for banking.

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	Worthington Duplex.	Corliss Vertical.	Worthington Triple Expansion.	Corliss Horizontal High Service.	Nagle High Service.
5. Total fuel consumed for the year, (3) + (4) in pounds,	266,583	785,267	4,226,869	121,442	732,110
6. Total pumpage for the year in gallons,	86,411,100	485,127,721	2,923,466,885	33,347,175	446,238,250
7. Average static head against which pumps work,	168.93	170.07	170.30	111.95	112.01
8. Average dynamic head against which pumps work,	171.93	174.62	175.88	116.66	116.66
9. Number of gallons pumped per pound of coal (3),	325	620	692	276	611
10. Duty in foot pounds per 100 pounds of coal, using following formula, making no deductions for starting or banking fires, heating building or anything else. $\text{Duty} = \frac{\text{Gallons pumped (6) x 8.34 (lbs.) x 100 x dynamic head (8).}}{\text{Total fuel consumed (5).}}$,	46,478,800	89,970,200	101,452,300	26,716,400	59,303,200
Percentage of total coal consumed used for banking,	0.8	2.6	2.6	8.7	19.1

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COST OF PUMPING, FIGURED ON PUMPING EXPENSES, INCLUDING COST OF FUEL, SALARIES, OIL, WASTE, AND OTHER SUPPLIES, CLEANING ENGINES AND HOUSES, AND REPAIRING MACHINERY AND BOILERS, WAS $18,175.54 FOR THE LOW SERVICE, AND $6,768.88 FOR THE HIGH SERVICE.

11.	Per million gallons raised against dynamic head (8) into low service reservoir, the cost was,	$5.20
	Into high service reservoir (pumped twice, $5.20 + $14.11),	$19.31
12.	Per million gallons raised one foot high (dynamic), low service, the cost was,	$0.0299
	High service, the cost was,	$0.1210
	Net cost of works to date,	$6,119,085.39

CONSUMPTION.

1.	Estimated total population at date,	156,972
4.	Total number gallons consumed for year,	3,250,355,967
7.	Average daily consumption,	8,905,085
8.	Gallons per day to each inhabitant,	57
10.	Gallons per day to each tap (Distribution 22),	475

DISTRIBUTION.

MAINS.

1.	Kind of pipe used,	Cast iron.
2.	Size,	From 6 to 36 inches.
3.	Extended,	62,648.14 feet.
4.	Discontinued,	1,635.38 feet.
5.	Total now in use,	*296.2754 miles.
8.	Small distribution pipe, less than four inches, total length,	None.

* Includes 10,084 feet of 36-inch pipe, 561 feet of 30-inch pipe and 695 feet of 24-inch pipe, which are force mains, and 19.66 feet of 30-inch pipe and 19,478.46 feet of 24-inch pipe, which are used both as a force and delivery main.

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9.	Hydrants added,	47
10.	Number now in use,	1,701
11.	Stop gates added,	135
12.	Number now in use,	3,035
14.	Number of blow-off gates,	32
15.	Range of pressure on mains at centre of city for day and night,	64 to 73 lbs.

SERVICES.

16.	Kind of pipe used,	Lead and cast iron.
17.	Size,	From ¾ to 10 inches.
21.	Service taps added,	764
22.	Number now in use,	18,763
25.	Meters added,	940
26.	Number now in use,	13,993
27.	Elevators added,	8
28.	Number now in use,	109 elevators connected by 4 and 6-inch supplies and 15 house elevators connected by smaller supplies.

REMARKS.

The Cornish engine was not run during the year.

The Worthington Duplex engine was run 28 days.

The Corliss Vertical engine was run 58 days.

The Worthington Triple Expansion engine was run 270 days.

The Corliss Horizontal engine was run 24 days.

The Nagle engine was run 287 days.

The force employed in this department has been: Edmund B. Weston, assistant engineer in charge of water department; Irving S. Wood, James A. McKenna and Frederick O. Gage, principals, and Daniel J. Kirby and Stephen A. Taft, assistants; Edward S. McGregor, principal, and Joseph R. Bullock, Stephen L. Davis and Charles H. Dow, assistants, have also devoted a portion of their time to this department.

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SEWERS.

The following table shows the locations, sizes and lengths of sewers constructed during the year:

Street.	Ordered. Res'n No.	Ordered. Date.	Completed.	Drain to Curb. 6 inch.	Pipe Sewer. 8 inch.	Pipe Sewer. 12 inch.	Pipe Sewer. 15 inch.	Pipe Sewer. 18 inch.	Circular Brick Sewer. 16 inch.	Circular Brick Sewer. 18 inch.	Circular Brick Sewer. 20 inch.	Circular Brick Sewer. 24 inch.	Circular Brick Sewer. 30 inch.	Totals.
Acorn st. and Harris av. present sewer in Acorn st., to Charlotte Hope st.	274	June 7, 1895.	Aug. 16, 1895.	184.00	.....	657.68	394.84	.....	.....	.....	.....	.....	.....	1,052.52
Adelaide av., from a point 100 feet east of Melrose st., to Hamilton st.	395	Aug. 30, 1895.	Oct. 30, 1895.	263.50	394.84	.....	.....	.....	.....	.....	.....	.....	.....	394.84
Althea st., Cranston st. to Union av.	492	Nov. 5, 1895.	Dec. 12, 1895.	460.00	518.04	456.40	.....	.....	.....	.....	.....	.....	.....	974.44
Andem st., Academy av. to Canton st.	466	Oct. 18, 1895.	Nov. 22, 1895.	179.00	217.38	213.84	.....	.....	.....	.....	.....	.....	.....	431.22
Autumn st., Eddy st. to Rugby st.	207	May 4, 1895.	Aug. 9, 1895.	198.00	398.23	.....	.....	.....	.....	.....	.....	.....	.....	398.23
Barton st., Broadway to Westminster st.	616	Nov. 20, 1894.	May 6, 1895.	218.00	686.75	.....	.....	.....	.....	.....	.....	.....	.....	686.75
Bolander st., Grand View st. to Abbott st.	82	Feb. 23, 1895.	May 14, 1895.	.....	465.14	.....	.....	.....	.....	.....	.....	.....	.....	465.14
Brattle st., Waldo st. to Lilac st.	617	Nov. 20, 1894.	May 29, 1895.	99.00	166.94	.....	.....	.....	.....	.....	.....	.....	.....	166.94
Broadway, Marshall st. to Almy st.	275	June 7, 1895.	July 15, 1895.	77.00	.....	107.67	.....	.....	.....	.....	.....	.....	.....	107.67
Cedar st., from a point about 70 feet west of Acorn st. to the West Exchange st. sewer at Sutton st.	347	July 10. 1895.	Aug. 19, 1895.	77.00	244.57	19.45	.....	.....	.....	.....	.....	.....	.....	264.02
Chambers st., Potters av. to Huntington av.	208	May 4, 1895.	July 19, 1895.	356.00	359.98	133.15	.....	.....	.....	.....	.....	.....	.....	493.13

SEWERS.—*Continued.*

STREET.	ORDERED.		COMPLETED.	Drain to Curb.	PIPE SEWER.				CIRCULAR BRICK SEWER.					TOTALS.
	Resl'n No.	Date.		6 inch.	8 inch.	12 inch.	15 inch.	18 inch.	16 inch.	18 inch.	20 inch.	24 inch.	30 inch.	
Chester av., Milk st. to Prairie av.	396	Aug. 30, 1895.	Nov. 1, 1895.	78.00	220.30	.....	.....	.....	.....	.....	.....	.....	.....	220.30
Cranston st., Potter av. to Huntington av.	83	Feb. 23, 1895.	Apr. 19, 1895.	291.00	.....	538.33	.....	.....	.....	.....	.....	.....	.....	538.33
Eddy and Broad sts., Jillson st. to the city line	567	Oct. 19, 1894.	Jan. 14, 1895.	190.00	.50	70.50	.....	.....	.....	112.13	167.64	.....	.....	350.77
Gay st., Willard av. to Robinson st.	209	May 4, 1895.	Sept. 5, 1895.	64.00	208.97	.....	.....	.....	.....	.....	.....	.....	.....	208.97
Goddard st., Douglas av. to Candace st.	496	Nov. 5, 1895.	Dec. 16, 1895.	668.00	.....	1,159.12	.....	.....	.....	.....	.....	.....	.....	1,159.12
Harris and Sims ave's., Charlotte Hope st. to Eagle st., and Harris av. to the Woonasquatucket river	210	May 4, 1895.	July 23, 1895.	851.00	.....	2,210.13	.....	.....	.....	.....	.....	.....	.....	2,210.13
Harris av., Acorn st. to the Woonasquatucket river	377	Aug. 20, 1895.	Dec. 9, 1895.	428.00	.....	631.49	398.66	1,285.60	.....	.....	.....	4.00	59.66	2,379.41
Hendrick st., Carleton st. to Academy av.	84	Feb. 23, 1895.	July 11, 1895.	443.00	68.75	937.11	.....	.....	.....	.....	.....	.....	.....	1,005.86
Hewes st., end of present sewer opposite Stampers st., 120 feet northerly	276	June 7, 1895.	July 10, 1895.	107.00	.....	114.40	.....	.....	.....	.....	.....	.....	.....	114.40
Lexington av., Niagara st. to Hamilton st.	211	May 4, 1895.	July 31, 1895.	290.00	3.67	564.25	.....	.....	.....	.....	.....	.....	.....	567.92
Lillian av., Broad st. to Baxter st.	287	June 18, 1895.	Sept. 4, 1895.	491.00	7.34	698.12	.....	.....	.....	.....	.....	.....	.....	705.46
Linwood av., Cranston st. to Union av.	212	May 4, 1895.	July 11, 1895.	747.00	519.66	735.03	.....	.....	.....	.....	.....	.....	.....	1,254.69
Marlborough and Frank sts., East Beacon st. to Pearl st., and from Beacon av. to Plain st.	85	Feb. 23, 1895.	May 27, 1895.	395.00	935.47	2.00	.....	.....	.....	.....	.....	.....	.....	937.47

SEWERS.—*Continued.*

STREET.	ORDERED.		COMPLETED.	Drain to Curb.	PIPE SEWER.				CIRCULAR BRICK SEWER					TOTALS.
	Resl'n No.	Date.		6 inch.	8 inch.	12 inch.	15 inch.	18 inch.	16 inch.	18 inch.	20 inch.	24 inch.	30 inch.	
McKinley st., Roger Williams Park to Elmwood av.	301	June 21, 1895.	Sept. 12, 1895.	251.00	589.35	.....	.....	.....	.....	.....	.....	.....	.....	589.35
Norwich av., Broad st. to Baxter st.	467	Oct. 18, 1895.	Nov. 22, 1895.	338.00	3.67	711.80	.....	.....	.....	.....	.....	.....	.....	715.47
Peirce st., Courtland st. to Marshall st.	453	Oct. 8, 1895.	Nov. 14, 1895.	55.00	197.09	.....	.....	.....	.....	.....	.....	.....	.....	197.09
Plum st., Oxford st. to Fruit st.	59	Feb. 19, 1895.	Apr. 24, 1895.	89.00	319.57	.....	.....	.....	.....	.....	.....	.....	.....	319.57
Pomona av., Academy av. to Pemberton st.	619	Nov. 20, 1894.	June 19, 1895.	168.00	27.80	403.12	.....	.....	.....	.....	.....	.....	.....	430.92
Public st., Plain st. to Eddy st.	322	June 27, 1895.	Aug. 29, 1895.	365.00	23.70	761.01	.....	.....	.....	.....	.....	.....	.....	784.71
Rhodes st. and Allens av., Eddy st. to Blackstone st.	213	May 4, 1895.	Aug. 19, 1895.	487.00	901.87	.....	.....	.....	.....	.....	397.43	.....	.....	1,299.30
Rhode Island and Grand aves., Madison av. and Angell st. to South Angell st.	530	Dec. 3, 1895.	Jan. 1, 1896.	380.00	1,093.95	224.42	.....	.....	.....	.....	.....	.....	.....	1,318.37
Roger Williams Park, Miller av. and Broad st., present sewer in the Park to Broad st., and from the R. R. Bridge to Jillson st.	397	Aug. 30, 1895.	Oct. 26, 1895.	555.00	1,139.03	3,405.43	.....	.....	.....	.....	.....	.....	.....	4,544.46
Shawmut st., Orms st. to Chalkstone av.	86	Feb. 23, 1895.	May 28, 1895.	261.00	219.24	262.23	.....	.....	.....	.....	.....	.....	.....	481.47
Stanwood st., Hamilton st. to Public st.	454	Oct. 8, 1895.	Nov. 11, 1895.	404.00	277.72	494.81	.....	.....	.....	.....	.....	.....	.....	772.53
Sycamore st., 100 feet south of Willow st., to Hudson st.	497	Nov. 5, 1895.	Nov. 26, 1895.	106.00	195.29	.....	.....	.....	.....	.....	.....	.....	.....	195.29

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SEWERS.—*Continued.*

STREET.	ORDERED. Resl'n No.	ORDERED. Date.	COMPLETED.	Drain to Curb. 6 inch.	PIPE SEWER. 8 inch.	PIPE SEWER. 12 inch.	PIPE SEWER. 15 inch.	PIPE SEWER. 18 inch.	CIRCULAR BRICK SEWER. 16 inch.	CIRCULAR BRICK SEWER. 18 inch.	CIRCULAR BRICK SEWER. 20 inch.	CIRCULAR BRICK SEWER. 24 inch.	CIRCULAR BRICK SEWER. 30 inch.	TOTALS.
Taylor st. and Reynolds av., about 91 feet south of Chester av. to Marlborough av., Buckley st. to Potter av., and Broad st. to Taylor st.....	87	Feb. 23, 1895.	May 17, 1895.	452.00	338.15	757.26	.....	.....	.....	.....	.....	.....	.....	1,095.41
Van Zandt st., Jackson av. to Hamburg av.....	523	Nov. 22, 1895.	Dec. 23, 1895.	140.00	272.17	34.64	102.97	.....	.....	.....	.....	.....	.....	409.78
Wellington st., East Beacon st. to Pearl st.....	468	Oct. 18, 1895.	Nov. 8, 1895.	113.00	269.27	.....	.....	.....	.....	.....	.....	.....	.....	269.27
Whitney st., Alger st. to Elmwood ave.....	323	June 27, 1895.	Sept. 16, 1895.	265.00	504.65	.....	.....	.....	.....	.....	.....	.....	.....	504.65
Willow, Ellery, Hudson and Wood sts., Messer st. to Huntington av., and end of present sewer in Hudson st. to Huntington av.....	96	Feb. 27, 1895.	Apr. 30, 1895.	1,114.00	478.27	986.08	.....	.....	393.71	333.06	.....	.....	.....	2,191.12

TOTAL LENGTHS.

	Drain to Curb. 6 inch.	PIPE SEWER. 8 inch.	PIPE SEWER. 12 inch.	PIPE SEWER. 15 inch.	PIPE SEWER. 18 inch.	CIRCULAR BRICK SEWER. 16 inch.	CIRCULAR BRICK SEWER. 18 inch.	CIRCULAR BRICK SEWER. 20 inch.	CIRCULAR BRICK SEWER. 24 inch.	CIRCULAR BRICK SEWER. 30 inch.	TOTALS.
Totol length in feet.....	12,657.50	12,267.32	17,289.47	897.47	1,285.60	393.71	445.19	565.07	4.00	59.66	33,906.49
Total length in miles.....	2.3935	Total pipe.....6.0111				Total Brick.....0.2780					6.2891

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The following is a statement of the total lengths of each size of regular sewers constructed to January, 1896:

Size.	Kind.	Constructed previous to 1895.	Constructed in 1895.	Totals.
66x72 oval.	Brick	530.64		530.64
60x84 "	"	184.06		184.06
48x72 "	"	141.75		141.75
44x66 "	"	659.57		659 57
40x60 "	"	5,288.82		5,288.82
38x57 "	"	4,681.60		4,681.60
36x54 "	"	4,202.43		4,202.43
34x51 "	"	834.37		834,37
32x48 "	"	1,293 89		1,293.89
30x45 "	"	4,538 34		4,538.34
28x42 "	"	6,153.31		6,153.31
26x39 "	"	4,916.98		4,916.98
24x36 "	"	9,010.17		9,010.17
22x33 "	"	10,027.63		10,027.63
20x30 "	"	12,015.81		12,015.81
18x26 "	"	142.00		142.00
16x24 "	"	482.00		482.00
66 circular	"	4,025.55		4,025.55
64 "	"	1,216.71		1,216.71
60 "	"	530.44		530.44
56 "	"	1,448.00		1,448.00
54 "	"	268.86		268.86
52 "	"	657.31		657.31
48 "	"	4,178.08		4,178.08
42 "	"	777.12		777.12
40 "	"	630.05		630.05
36 "	"	1,823.99		1,823.99
34 "	"	1,146.53		1,146.53
32 "	"	313.19		313.19
30 "	"	1,233.85	59.66	1,293.51
28 "	"	769.71		769.71
26 "	"	335.81		335.81
24 "	"	8,560.36	4.00	8,564.36
22 "	"	12,669.62		12,669.62
20 "	"	21,897.37	565.07	22,462.44
18 "	"	25,656.06	445.19	26,101.25
16 "	"	6,993.90	393.71	7,387.61
18 "	Pipe	1,702.98	1,285.60	2,988.58
15 "	"	60,620.62	896.47	61,517.09
12 "	"	405,987.65	17,289.47	423,277.12
8 "	"	23,361.62	12,267.32	35,628.54
6 " iron	"	218.37		218.37
Total length in feet		652,126.67	33,206.49	685,333.16
" " " miles		123.5088	6.2891	129.7979

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Tabular statement in regard to sewers built under the appropriation for improved sewerage system during 1895:

Section or Street.	Ordered.		Completed.	Size in Inches.	Kind.	Length.
	Resl'n No.	Date.				
Norfolk, Burrington, Station and Chambers sts., and Huntington ave...	138	Mar. 21, 1893.	Jan. 19, 1895.	52	Cir. brick..	2.41
	....	.....	....	26	" " ..	10.28
	....	.....	.....	12	Pipe.....	12.90
" Rider.	....	....	....	18	"	12.90
" "	....	.....	....	15	"	2.41
Section No. 3.....	406	July 15, 1889.	Nov. 4, 1895.	88	Cir. brick..	473.72
" " 3.....	....	.....	.....	48	Iron Pipe..	253.20
" " 4.....	"	" " "	Nov. 16, 1895.	102	Cir. brick..	3.00
" " 10.....	564	Sept. 23, 1893.	Jan. 8, 1896.	102	" " ..	1,907.95
" " 15.....	521	Sept. 25, 1894.	Dec. 7, 1895.	78	" " ..	966.40
" " 16.....	"	" " "	Dec. 21, 1895.	48	" " ..	800.00
" " 17....	"	" " "	Aug. 19, 1895.	62	" " ..	2,206.70
" " 17.....	....	.....	.....	50	" " ..	40.00
" " 18.....	"	" " "	Jan. 4, 1896.	62	" " ..	2,192.80
Total length in feet.....	....	....	.....	.....	.....	8,186.67
" " " miles.. ...	...	.....	.....	.....	.....	1.5505

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Tabular statement in regard to all the sewers built under the appropriation for improved sewerage system :

SIZE.	KIND.	Constructed previous to 1895.	Constructed in 1895.	Total Length.
86¼x 94 Horse-shoe—single line...	Brick & rubble...	64.25	.....	64.25
86¼x 94 " " double " ...	Brick & concrete.	893.52	.....	893.52
75x108 " "	Brick & rubble...	825.63	.....	825.63
70x76 " "	" " ...	701.00	.....	701.00
50x72 " "	" " ...	949.14	.....	949.14
46x69 Oval..... ...	Brick & concrete.	773.00	.....	773.00
44x66 "	" " ..	703.00	....	703.00
40x60 "	" " ..	1,033.00	.....	1,033.00
38x57 "	Brick	1,525.79	.....	1,525.79
36x54 "	"	767.57	.....	767.57
34x51 "	"	1,963.01	.....	1,963.01
32x48 "	"	1,431.09	.....	1,431.09
30x45 "	"	1,445.94	....	1,445.94
28x42 "	"	4,508.34	.....	4,508.34
26x39 "	"	5,419.44	....	5,419.44
22x33 "	"	1,289.44	.....	1,289.44
20x30 "	"	2,271.41	.....	2,271.41
18x27 "	"	2,218.78	.....	2,218.78
16x24 "	"	1,466.00	.....	1,466.00
110 Circular.....	Brick & concrete.	4,825.79	.....	4,825.79
108 "	" " ..	2,961.61	.....	2,961.61
102 "	Brick { concrete.. / rubble....	5,798.54	1,210.95	7,009.49
100 "	Brick & concrete.	2,376.53	.....	2,376.53
88 "	Brick	.....	473.72	473.72
80 "	Brick & concrete.	4,379.42	.....	4,379.42
78 "	Brick { concrete.. / rubble....	.....	966.40	966.40
74 "	Brick & concrete.	3,125.39	.....	3,125.39
70 "	Brick { concrete.. / rubble....	3,676.90	.....	3,676.90
68 "	Brick & rubble...	4,239.49	.....	4,239.49
66 "	Brick & concrete.	1,363.55	.....	1,363.55
62 "	" " ..	497.05	4,401.50	4,898.55
60 "	" " ..	3,587.60	.....	3,587.60
58 "	" " ..	1,079.67	.....	1,079.67
56 "	Brick	646.99	.....	646.99
54 "	Brick & concrete.	2,932.14	....	2,932.14
52 "	Brick	1,521.93	2.41	1,524.34
50 "	Brick & concrete.	710.23	40.00	750.23
48 "	Brick	2,411.40	800.00	3,211.40
46 "	"	580.14	.....	580.14
44 "	"	74.04	.....	74.04
40 "	"	150.59	.....	150.59
36 "	"	3,156.88	.....	3,156.88
34 "	"	303.60	.....	303.60
28 "	"	46.83	.....	46.83
26 "	"	372.00	10.28	382.28
24 "	"	852.06	.....	852.06
22 "	"	620.10	.....	620.10
20 "	"	1,166.54	.....	1,166.54
18 "	"	500.35	.....	500.35
48 " double line.....	Iron	705.31	.....	705.31
48 " single "	"	.....	253.20	253.20
36 "	"	180.00	.....	180.00
18 "	Pipe	3,357.83	12.90	3,370.73
15 "	"	2,038.45	2.41	2,040.86
12 "	"	5,380.95	12.90	5,393.85
8 "	"	98.25	.....	98.25
6 "	"	330.30	.....	330.30
Total length in feet.....	.....	96,297.80	8,186.67	104,484.47
" " " miles	.....	18.2382	1.5505	19.7887

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The average depth of cut, nature of excavation and contract cost of labor, per foot, on the different sizes of regular sewers built during 1895, have been as follows:

Items.	Average Nature of Excavation.	Average Depth of Cut.	Average Cost per Foot.
6-inch pipe in drains to curb line.	Fine sand, dry	10.50 ft.	$ 0.53
6 " " " " " " "	Sand and gravel, dry	10.50 "	0.55
6 " " " " " " "	" " " wet	10.50 "	0.65
8 " " " basin connections..	Fine sand	8.00 "	0.495
8 " " " " "	Sand and gravel, dry	8.00 "	0.50
8 " " " " "	" " " wet	8.00 "	0.60
8 " " sewer	Fine sand	11.70 "	0.68
8 " " "	Sand and gravel	11.70 "	0.757
8 " " "	Rock*	11.00 "	—0.01
12 " " "	Fine sand	12.00 "	0.71
12 " " "	Sand and gravel, dry	12.00 "	0.725
12 " " "	Sand and paved	12.00 "	0.75
12 " " "	Coarse gravel	12.00 "	1.25
12 " " "	Sand and gravel, wet	12.00 "	1.60
15 " " "	Fine sand	12.25 "	.90
15 " " "	" " and gravel, wet	12.25 "	2.50
16 " brick " sing. course	Fine sand	12.33 "	1.00
18 " " " " "	" "	12.50 "	1.00
20 " " " " "	Filled material, sand, wet	11.00 "	1.40
Average cost of building 259 manholes, each			11.22
" " " " 97 catch basins, each			12.64
" " " " 11 extra inlets, each			6.45
" " " " manholes in rock excavation			—5.00
*Rock excavation, per cubic yard, extra (stipulated price)			4.00

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From the preceding tables it will be seen that 6.289 miles of regular sewers have been built during the year 1895, of which 6.011 miles were of pipe and 0.278 miles were of brick, making the total length to date 99.172 miles of pipe and 30.626 miles of brick sewer.

In addition to the regular sewers, 1.55 miles of sewers have been built under the appropriation for improved sewerage, making a total of 7.839 miles of sewers built during the past year, and a total of 149.586 miles of sewers in the sewerage system.

Fourteen hundred and five and twenty-five hundredths feet of sewer, for taking storm water only, has been built on Harris avenue, making a total of 3.858 miles of such sewers in use January 1, 1896.

One hundred and forty catch-basins, eighty-four extra inlets and three hundred and eighteen manholes have been built and connected with the sewerage system during the past year.

Nine catch-basins have been discontinued, leaving a total number of catch-basins in use January 1, 1896, of three thousand six hundred and forty-three.

The total number of man-holes in use is six thousand four hundred and thirty.

The total length of six-inch drains extended to curb line during 1895, under Legislative Act of June, 1894, was 12637.5 feet, or 2.393 miles, making a total of 4.834 miles laid to date under said act, and assessed for with the sewer assessment.

The number of house connections made in 1895 was nine hundred and ninety-three, making the total number connected to date eleven thousand five hundred and eighty.

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The records of this office show that about 13,514 houses are connected with the public sewers, and that of these there are 2,562 houses in the Elmwood district. An estimate, based upon the census of 1893, made by Dr. Chapin, which is the last one of which we have any reliable returns, indicates that 103,164 people are living in houses connected with the sewer system and are thus enjoying the benefits of good sewerage. Of this number, it is estimated that 16,361 live in the Elmwood district. In this district there are 41.874 miles of sewer, the flow from which goes to Field's Point by gravity.

In June, 1894, the construction of a new style of catch basin covering, mainly of cast-iron, was begun, which has proved to be very satisfactory. The walls of the basin are drawn in from a level a little above the water line to meet a cast-iron frame resting against the regular curb-stone, through which the inlet is cut, and which forms a part of the covering to the basin. The details of the frame and its position on the basin, as well as the general appearance of the basin from the street, are shown on the accompanying plates.

The following sewers have been ordered but not constructed :

Dexter street, from Miller street to Cranston street.
Elmgrove avenue, Irving street, and Wayland avenue, from Olney street to Elton street.
The West river valley line, from Veazie street and Branch avenue to Smith street, corner of Canal street.

Forty-three estimates have been made for sewers, two of which have not been ordered, as follows :

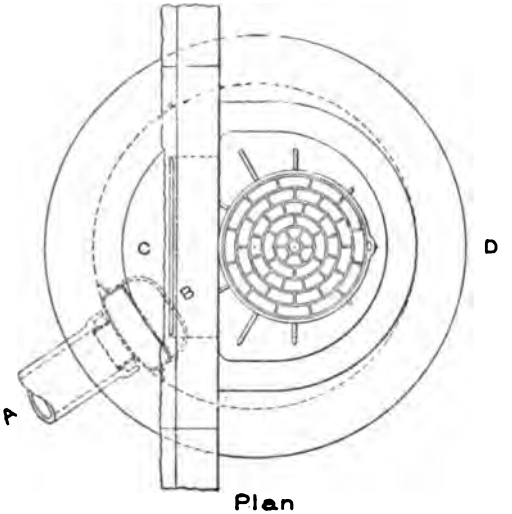
Charles street, from Hagan street to the West river.
Paine street, from Messer street to Cranston street.

Plans for sewer assessments on the following streets, in which sewers have been constructed, have been furnished to the Commissioner of Public Works :

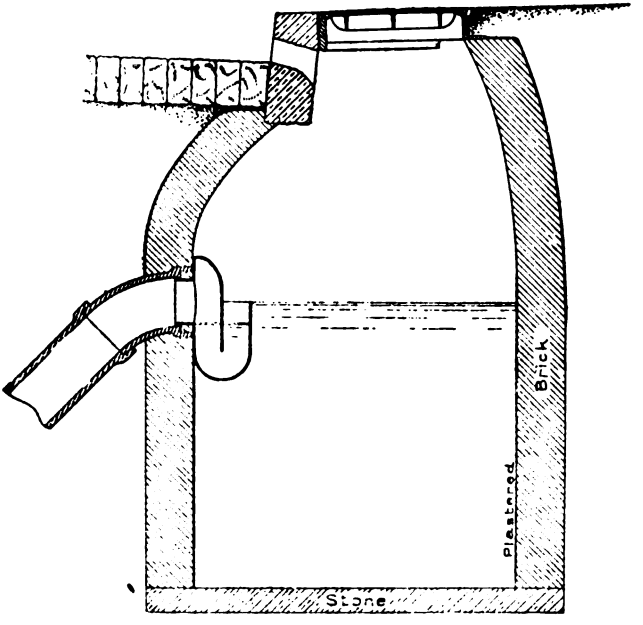
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CATCH BASIN
SHOWING METHOD OF COVERING

Scale $\frac{3}{8}$ in. = 1 ft.



Plan



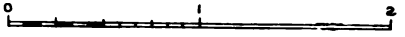
Section on line ABCD

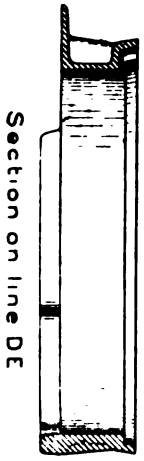
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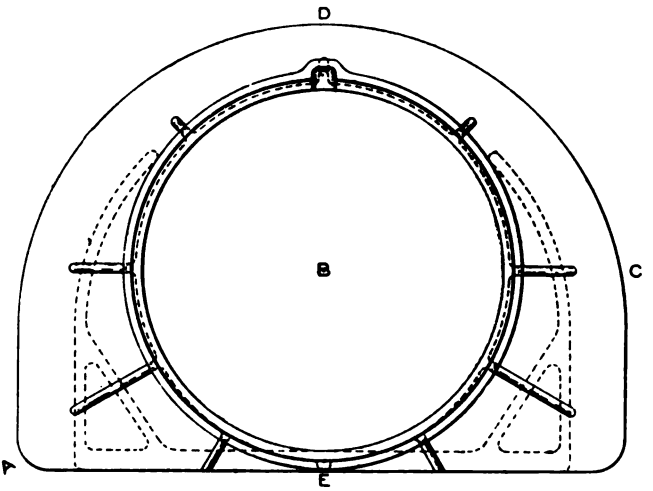
MANHOLE FRAME FOR CATCH BASIN

Scale 1 in. = 1 ft.

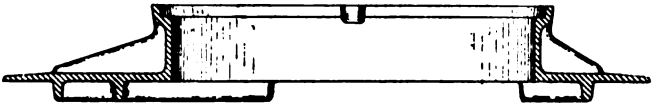




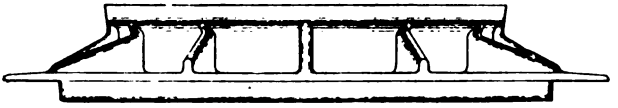
Section on line DE



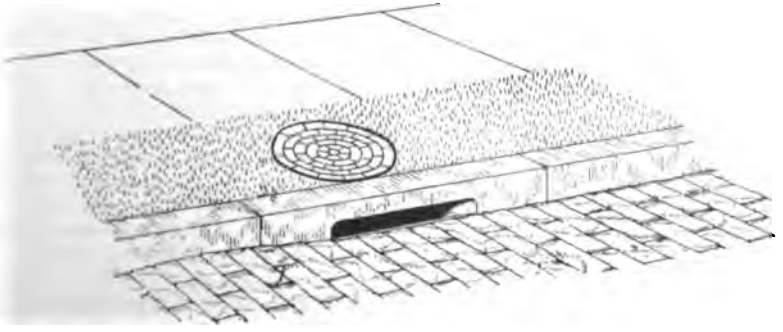
Plan



Section on line ABC



Elevation



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Abbott street, from Camp street to Knowles street.

Academy avenue, from Beaufort street to Dover street, and from Regent avenue to Cambridge street.

Althea street, from Cranston street to Dexter street.

Atlantic street, from Elmwood avenue to Hamilton street.

Barton street, from Broadway to Westminster street.

Benevolent street, from the summit near Cooke street to Hope street.

Bolander street, from Grandview street to Abbott street.

Brattle street, from Waldo street to Lilac street.

Broad street, from Lenox avenue to Thurber's avenue.

Butler avenue, from Angell street to South Angell street.

Chambers street, from Potter avenue to Huntington avenue.

Cranston street, from Potter avenue to Huntington avenue.

Eddy and Broad streets, from Jillson street to Broad street, and from Eddy street to the city line.

Evergreen and Forest streets, from Camp street to North Main street, and from the summit west of Ivy street to Camp street.

Gesler street, from Courtland street to Almy street.

Harris avenue, from Broadway to Grove street.

Harris and Sims avenues, from Charlotte Hope street to Eagle street, and from Harris avenue to the Woonasquatucket River.

Hendrick street, from Carleton street to Academy avenue.

Howard and Perry streets, Broadway and Eden street, from Hill street to Broadway, from Hill street to Broadway, from Baker avenue to the end of the present sewer near Valley street, and from Broadway to Bell street.

Ives street, from the north line of Medway street to Waterman street.

Lexington avenue, from Niagara street to Hamilton street.

Linwood avenue, from Cranston street to Union avenue.

Marlborough and Frank streets, from East Beacon street to Pearl street, and from Beacon avenue to Plain street.

Medway street, from a point 100 feet east of Ives street to Gano street.

Meeting street, from Thayer street to Brook street.

Norfolk street, Station street, Huntington avenue, Chambers street, and Burrington street, from Oak street to Station street, from Norfolk street to Cranston street, from Cranston street to Chambers street, from Huntington avenue to Burrington street, and from Chambers street to Crocker avenue.

Orchard and Fruit streets, from Oxford street to Fruit street, and from Broad street to Gordon avenue.

Perry and Howard streets, from Hill street to Westminster street, and from Hill street to Westminster street.

Plum street, from Oxford street to Fruit street.

Pomona avenue, from Pemberton street to Academy avenue.

Prairie avenue, from Pavilion avenue to Logan avenue.

Rutland street, from Elmwood avenue to Bucklin street.

Salisbury street, from a point 300 feet west of the west line of Plain street to Plain street.

South Angell and East River streets, from Butler avenue to East River street and from South Angell street to Pitman street.

Staniford street, from Bogman street to Blackstone street.

Stewart street, from Broad street to Conduit street.

Taylor street and Reynolds avenue, from a point about 91 feet south of

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Chester avenue to Marlborough avenue and from Buckley street to Potter avenue, from Broad street to Taylor street.

Union avenue, from Messer street to Huntington avenue.

Violet street, from the summit about 300 feet north of Orms street to Orms street.

Wendell and Ellery streets, from Messer street to Ellery street and from Wendell street to Chapin avenue.

Whitmarsh and Broad streets, from Updike street to Broad street and from Whitmarsh street to Princeton avenue.

Willow, Ellery, Hudson and Wood streets, from Messer street to Ellery street, from Willow street to Wood street, from the end of the present sewer to Huntington avenue and from Ellery street to Huntington avenue.

On all the above-named sewers, with the exception of Bolander street, the length and cost of drains laid to the curb line have been made out and returned with the assessments.

It has been the intention of this department to communicate with every owner of abutting property on the above-named streets, in order to have the drains to curb located satisfactorily. About six hundred different owners have been thus interviewed.

Section ten, with its extension, which was only partly constructed at the date of the last report, is practically completed.

The contract for the foundations of the Ernest Street Sewage Pumping Station, which includes foundations for engine house, filth hoist house, boiler house and chimney, also for boilers, screen chamber, and the piers and pits for the engines, and everything up to the ground level, was let January 17th and work was begun on February 11th. These foundations differ from the ordinary work for such a purpose in being, as nearly as it was possible to make it, one monolithic structure of Portland cement concrete, the only brickwork connected with it being the lining to the pump wells and the invert to the screen chamber, and the only stonework the bluestone treads to the stairways. The work contains five thousand six hundred and seventy-seven

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cubic yards of concrete, and was completed about the middle of November. The contract for the buildings and chimney was let on September 7th. They are well advanced and work is now in progress. The engine will be ready to erect as soon as the condition of the buildings will allow.

Sections fifteen, sixteen, seventeen and eighteen, extending from Allen's avenue, in the line of India street extended, to South Water street, and in South Water street from India street to Market square, were let January 17th, and are all completed.

Three bids were received for building section sixteen, which is the section under the Providence river, by means of coffer-dams, and one for doing the work by tunnelling. The latter method seemed the most feasible as well as the cheapest. The work was commenced April 1st at the west shaft. The first eight feet were excavated by open cut and the steel plates which were to form the lining of the excavation for the shaft were put in place. The air lock was then placed just above the level of the ground and the space outside of the plates puddled with clay. Compressed air was then applied, and as the excavation proceeded downward more plates were added until the bottom of the shaft was reached about fifty feet below the surface. The character of the excavation at this shaft was for the first five feet dirt and ashes, then about eight feet of oyster shells, then fine silt or river mud to within a foot and a half of the bottom, when coarse, heavy gravel was reached. This shaft is five feet internal diameter and has a sump five feet deep below the bottom of the tunnel, which starts from the shaft at a depth of forty-three and ninety-one one-hundredths feet below the floor of the gate-house over the shaft.

The tunnel, which is four feet interior diameter with walls one foot thick, was excavated as nearly as possible six feet in diameter, plus the depth of the flanges to the steel plates

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that were used to support the roof of the excavation, these plates were one foot wide and of two lengths, three feet, and one and one-half feet, and were used, first, two three-foot plates and then one, three-foot and two, one and a half foot plates, so as to break joints, the plates were bolted together through the flanges, and the whole held up until the brickwork was in place, by screw braces from the bottom. The excavation was advanced in sections of about ten feet, and then the brickwork was put in. The best of hard-burned bricks and Portland cement were used in the entire work.

The tunnel, which is seven hundred and seventy-four feet in length between centers of shafts, was driven six hundred and forty-two feet under the river from the west shaft, when the east shaft was put down and the tunnel driven westerly to meet the part already built. The character of the excavation in the east shaft was a sandy gravel mixed with refuse from an iron furnace for about ten feet in depth, then silt or river mud to within about three feet of the bottom, where a sandy gravel was found. The tunnel was driven in silt or mud with thin streaks of sand in a few places, mostly toward the east end.

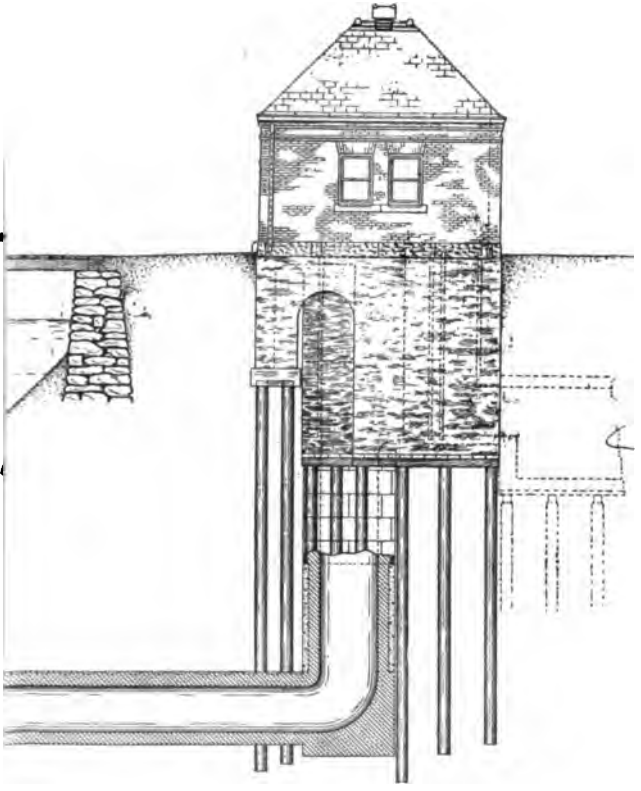
The circular lines of the two sections of tunnel were so nearly concentric in meeting that no variation is noticeable in the brickwork of the completed tunnel. This result is considered good, inasmuch as the lines had to be put down through the air locks on the surface at each end and the conditions were unfavorable.

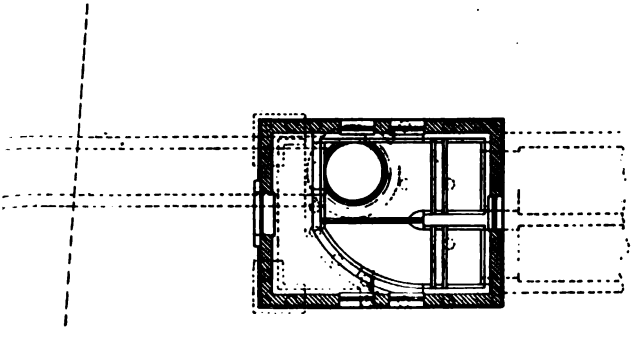
The outside of the steel casing over the tunnel is supposed to be about one foot below the level of deepest dredging, as fixed by the Government for Providence river or harbor, which level is twenty-five feet below mean low tide.

Some trouble was caused by what appeared to be spud holes made by a dredge while dredging in the river. Twice

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during the construction the water got the best of the workmen and filled the tunnel. When this occurred a large canvas was spread on the bottom of the river so as to cover the hole, and mud or clay dumped on the canvas to hold it in place; the water was then pumped out and the excavation resumed. The work was prosecuted successfully without serious injury to anyone, and completed in December.

A profile of this section is shown on the accompanying plate, and on another plate is given a flash light photograph of the tunnel under construction.

The employés in this department have been Otis F. Clapp, assistant engineer in charge of sewer department; John E. Bowen, Samuel B. Burnham, Walter G. Stackpole, Robert F. Brown, Herbert M. Knight, William G. Holden, Eben E. Brown, Elbert E. Tift, Elliott R. B. Allardice and Frank H. Morris, principals; Walter L. Kendrick, H. Loring Huggins, Herbert M. Hatch, Walter D. Waterman, William A. Brown and Lewis G. Whittelsey, assistants; Frank Allen and Robert H. Peck, draughtsmen. Alfred M. Quick, Charles P. Dodge, Frederick H. Sibley and Emile Tintannè, draughtsmen, Charles E. Thurber, principal, and John B. Gough, William H. Steere, George E. Downing and William M. Cotton, Jr., assistants, have devoted a portion of their time to this department.

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HIGHWAYS.

The following streets have been curbed, the gutters paved, sidewalks graveled, and roadway macadamized. The specifications and plans for doing the work have been furnished to the Commissioner of Public Works, and the detail work marked out for the foreman on the street as requested:

Name of Street.	Between what Points.	Date Ordered.	Length in Feet.
Abbott	Knowles and Camp streets	Nov. 15, 1894.	596
Aborn	Cedar and West Exchange streets	Oct. 17, 1895.	230
Atlantic avenue	Elmwood avenue and Melrose street	Dec. 20, 1894.	849
Evergreen	North Main and Camp streets	Dec. 20, 1894.	1,141
Forest	Camp and Ivy streets	Sept. 20, 1894.	609
Fruit	Broad street and Gordon avenue	Jan. 17, 1896.	616
Gordon avenue	Oxford and Public streets	Dec. 20, 1894.	1,484
*Governor	Williams and Power streets	Apr. 18, 1895.	195
Oakland	Elmwood avenue and Public street	Jan. 17, 1896.	173
Reynolds avenue	Broad and Taylor streets	Sept. 19, 1895.	602
Rhodes	Eddy street and Allen's avenue	June 20, 1895.	869
Shawmut	Orms street and Chalkstone avenue	June 20, 1895.	611
Sims avenue	Harris and Kinsley avenues	Aug. 1, 1895.	753
South	Eddy street and harbor line	Sept. 20, 1894.	608
Taylor	Glenham street and Chester avenue	Dec. 20, 1894.	433
	Total		9,771

or 1.850 + miles.

* Including old Governor street.

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The following streets have been curbed, the gutters paved, sidewalks and roadway graveled. The specifications and plans for doing the work have been furnished to the Commissioner of Public Works, and the detail work marked out for the foreman on the street as requested:

Name of Street.	Between what Points.	Date Ordered.	Length in Feet.
Alma	Pekin and Candace streets	Dec. 20, 1894	421
Althea	Cranston and Dexter streets	Sept. 20, 1894	1,660
Burrington	Pacific and Crocker avenues	Feb. 21, 1895	772
Charles	Ledge and Hagan streets	Sept. 20, 1894	1,453
Ellery	Wendell street and Chapin avenue	Oct. 18, 1894	220
Hudson	Huntington avenue and Ellery street	Dec. 20, 1894	525
Kossuth	Putnam and Bowdoin streets	Dec. 20, 1894	210
Maryland avenue	New York and Montgomery avenues	May 16, 1895	1,753
*Miller avenue	Broad street and westerly termination	May 16, 1895	2,061
Orchard	Oxford and Fruit streets	Jan. 17, 1895	330
Plum avenue	Oxford and Fruit streets	May 16, 1895	353
Silver Spring	Charles street and Branch avenue	May 16, 1895	1,514
Tingley	Ashley avenue and Acorn street	April 4, 1895	335
Wendell	Messer and Ellery streets	Oct. 18, 1894	725
West River	Branch avenue and the West river	May 16, 1895	692
Willow	Ellery and Messer streets	Oct. 18, 1894	418
	Total		13,472

or 2.551+ miles.

*A portion of this work was performed by contract. Estimates were furnished the Commissioner of Public Works of the amount of work done by the contractor.

The surface water, collecting at the low point in Charles street at Hagan street, was conveyed to the natural water course in Hagan street by paving the intersection of the streets and grading and laying gutter in Hagan street. This work was marked out upon the ground.

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The following streets have been paved. The specifications and plans for doing the work have been furnished to the Commissioner of Public Works, and the detail work marked out for the foreman on the street as requested :

NAME OF STREET.	BETWEEN WHAT POINTS.	LENGTH IN FEET.	REMARKS.
†Broadway	Jackson and Barton streets	5,125	Asphalt and concrete base.
†Broadway	Aborn and Jackson streets	514	Granite blocks and concrete base.
‡Clifford	Eddy and Richmond streets	445	Granite blocks and concrete base.
Clifford	Eddy and Dyer streets	512	Granite blocks and sand bed.
Dorrance	Friendship and Dyer streets	406	Granite blocks and sand bed.
Dyer	Ship and Pine streets	1,585	Granite blocks and sand bed.
‡Eddy	Ship and Weybosset streets	1,465	Granite blocks and concrete base.
Eddy	Fulton and Westminster streets	205	Asphalt and concrete base.
‡Friendship	Eddy and Chestnut streets	1,024	Granite blocks and concrete base.
Friendship	Eddy and Dyer streets	655	Granite blocks and sand bed.
*‡Harris avenue	Eagle street and Kinsley avenue	2,068	Granite blocks and concrete base.
Hay	Pine and Friendship streets	220	Granite blocks and sand bed.
‡Hewes	Stevens and North Main streets	603	Granite blocks and concrete base.
Kinsley avenue	Near Gaspee street and Harris avenue	824	Granite blocks and broken stone base.
Orange	Weybosset and Dyer streets	706	Granite blocks and sand bed.
‡Page	Pine and Clifford streets	411	Granite blocks and concrete base.
Peck	Pine and Dyer streets	354	Granite blocks and sand bed.
‡Pine	Dyer street and Beacon avenue	3,044	Granite blocks and concrete base.
‡Potter	Friendship and Weybosset streets	515	Granite blocks and concrete base.
‡Railroad	Gaspee and Francis streets	415	Granite blocks and concrete base.
‡Richmond	Ship and Point streets	1,035	Granite blocks and concrete base.
‡Stillman	Near Gaspee and Promenade streets	462	Granite blocks and concrete base.
Traverse	Wickenden and Pike streets	290	Granite blocks and sand bed.
Waterman	East River street and Red bridge	250	Granite blocks and sand bed.
‡West Exchange	Sabin and Aborn streets	1,320	Granite blocks and concrete base.
	Total	24,453	

or 4.631+ miles.

* Work completed from Eagle to Acorn streets.

† This work was performed by contract. Estimates were furnished the Commissioner of Public Works of the amount of work done by the contractor.

‡ A portion of this work was performed by contract. Estimates were furnished the Commissioner of Public Works of the amount of work done by the contractor.

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Grades and roadway levels were given for the disposal of the surface water collecting at the junction of East avenue and Woodbine street. A culvert also was built across East avenue with an outlet in Woodbine street.

The following streets have been practically brought to grade:

Name of Street.	Between what Points.	Length in Feet.
California avenue	Virginia and Maryland avenues	816
Chambers	Potters and Huntington avenues	597
*East avenue	Doyle and Rochambeau avenues	3,134
Frank	Beacon avenue and Plain street	485
Grand avenue	South Angell street and Hawthorne avenue	1,313
Indiana avenue	Eddy street and Maryland avenue	1,753
Massachusetts avenue	Broad street and Maryland avenue	1,754
Osborn	Chalkstone avenue and Vale street	1,077
Pitman	Butler avenue and East River street	854
River avenue	Chalkstone avenue and Smith street	2,956
Vermont avenue	Virginia and Maryland avenues	818
Virginia avenue	Washington and Montgomery avenues	728
Virginia avenue	New York and Ohio avenues	387
Washington avenue	Eddy street and Maryland avenue	1,760
Wood	Huntington avenue and Ellery street	547
	Total	18,961

or 3 594+ miles.

*Surface of the roadway was macadamized.

By order of the Commissioner of Public Works, lines and grades have been given and marked out for removal of curbing, so as to make driveways into nine new streets. Also lines and grades have been given for resetting curbing in portions of ten streets, amounting to a total length of five thousand five hundred and thirty-eight feet, or one and five-hundredths miles.

The location and elevation of the pit for the new crusher were marked out upon the ground at the new city yard.

Grades were marked out for the contractor for laying sidewalks in thirty-seven streets.

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The following work, ordered by the board of aldermen or city council, has not been commenced:

Name of Street.	Character of Work.	Between what Points.	Date Ordered.	Length in Feet.
Autumn	Curbstones to be set and gutters paved	Eddy and Rugby streets	June 20, 1895.	380
Benefit	To rebuild	Wickenden and North Main streets	June 15, 1895.	6,280
Eddy	To be paved with granite blocks and cobble stones.	Henderson and Public streets	Dec. 17, 1895.	1,650
Forest	Curbstones to be set and gutters paved	Ivy street and East avenue	Sept. 19, 1895.	607
*Francis	Curbstones to be set and gutters paved	Exchange place and Gaspee street	May 16, 1895.	1,250
*Francis	To be paved with granite blocks	Exchange place and Gaspee street	Apr. 5, 1895.	1,250
Frank	Curbstones to be set and gutters paved	Plain street and Beacon avenue	June 20, 1895.	485
Gaspee	To be paved with granite blocks	Cove street and the railroad bridge abutment	Apr. 5, 1895.	130
Gaspee	To be paved with granite blocks	Kinsley avenue and first angle east of Francis street	Apr. 5, 1895.	1,125
Gordon avenue	Curbstones to be set and gutters paved	Oxford and Gallup streets	June 20, 1895.	754
Greeley	Curbstones to be set and gutters paved	Charles and Opper streets	Sept. 19, 1895.	687
Huntington avenue	Curbstones to be set and gutters paved	Cranston street and Union avenue	Sept. 19, 1895.	1,940
Linwood avenue	Curbstones to be set and gutters paved	Cranston street and Union avenue	Sept. 19, 1895.	1,228
Lisbon	Curbstones to be set and gutters paved	Chalkstone and Regent avenues	Sept. 19, 1895.	862
Marlborough	Curbstones to be set and gutters paved	East Beacon and Pearl streets	Sept. 19, 1895.	480
Promenade	Curbstones to be set and gutters paved	Present end of pavement near railroad bridge and Steeple street	May 16, 1895.	650
Promenade	To be paved with granite blocks	Present end of pavement near railroad bridge and Steeple street	Apr. 5, 1895.	650

* Except the portion over the bridge.

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Name of Street.	Character of Work.	Between what Points.	Date Ordered.	Length in Feet.
River avenue.....	Curbstones to be set and gutters paved.....	Chalkstone avenue and the brook on River avenue.....	Sept. 19, 1895.	983
The two approaches to the proposed depot in Exchange Place....	To be paved with granite blocks.....	.....	Apr. 5, 1895.	1,400
Washington.....	To be paved with granite blocks.....	Eddy and Walker streets..	Apr. 5, 1895.	1,089
Wood.....	Curbstones to be set and gutters paved.....	Ellery street and Huntington avenue.	Sept. 19, 1895.	547
		Total.....	.....	24,377

or 4.616+ miles.

Seven plans, eighteen inches by thirty-two inches each, have been made to furnish the city clerk a record of the establishment of grades by the board of aldermen.

Profiles of the following streets have been made for the purpose of defining grades. The contour of the center of the street is shown at fifty feet stations, also the levels of the sills and ground lines of houses adjoining the street. The plan accompanying the profile shows the division of estates, ownership and houses:

Name of Street.	Between what Points.	Length in Feet.
Aborn.....	Cedar and West Exchange streets.....	230
Adelaide avenue..... ...	Crescent street and Reservoir avenue.....	1,482
Alabama avenue.....	Maryland avenue and Narragansett bay.....	1.147
Allen's avenue.....	New York avenue and Ernest street.....	1,373
Alumni avenue.....	Hope street and Pennington avenue.....	1,000
Arlington avenue.....	Lloyd and Olney streets.....	1,300
Bedford.....	Admiral and Cornwall streets.....	950
Berkshire.....	Admiral and Cornwall streets.....	950
Bolander.....	Grand View and Abbott streets.....	467
California avenue.....	Maryland and Michigan avenues.....	822
Cheshire.....	Sussex and Cornwall streets.....	985
College.....	Benefit street and a point easterly.....	200
Cornwall.....	Hawkins and Suffolk streets.....	2,300
Cove.....	Aborn and Sabin streets.....	1,320

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Name of Street.	Between what Points.	Length in Feet.
Delaware avenue	Massachusetts and Montgomery avenues	700
Dunwells gangway	Weybosset and Dyer streets	237
Eames	Olney and Mumford streets	550
East River	Pitman and Waterman streets	200
Eleventh	Highland street and easterly termination	450
Elmhurst	Smith and Eaton streets	850
Emeline	Olney street and Elmgrove avenue	1,450
Euclid avenue	Thayer and Brook streets	298
Greeley	Opper and Charles streets	653
Indiana avenue	Maryland and Michigan avenues	851
Kossuth	Putnam and Bowdoin streets	210
Lexington avenue	Hamilton and Niagara streets	500
Lillian avenue	Broad and Baxter streets	620
Lisbon	Regent and Chalkstone avenues	843
Longmont	Admiral and Cornwall streets	950
Maryland avenue	Montgomery and Massachusetts avenues	493
Massachusetts avenue	Maryland avenue and Narragansett bay	1,175
Michigan avenue	Montgomery and New York avenues	2,000
Mississippi avenue	Maryland avenue and Narragansett bay	1,105
Mumford	Emeline and Olney streets	524
Nevada avenue	Vermont and New York avenues	805
Norwich avenue	Broad and Baxter streets	620
Oakland	Elmwood avenue and Public street	178
Ohio avenue	Maryland and Michigan avenues	800
Plum	Fruit and Oxford streets	353
Salina	Hawkins and Suffolk streets	2,150
Shawmut	Orms street and Chalkstone avenue	611
Sims avenue	Harris and Kinsley avenues	753
Stillman	Promenade and Gaspee streets	557
Suffolk	Admiral and Cornwall streets	750
Sussex	Longmont and Cheshire streets	596
Taylor	Potter avenue and Buckley street	400
Tingley	Ashley avenue and Acorn street	335
Van Zandt	Jackson avenue and Hamburg street	400
Vermont avenue	Maryland and Michigan avenues	894
Wadsworth	Sorrento and Cranston streets	499
Washington avenue	Maryland avenue and Narragansett bay	1,150
Washington	Walker and Eddy streets	1,089
Waterman	Central bridge and a point westerly	350
West River	Branch avenue and the bridge	692
Yorkshire	Hawkins and Longmont streets	1,350
	Total	44,512

or 8.430+ miles.

Profiles of the following streets have been made for the water department from which to estimate the cost of laying water pipes. The profile shows the contour and grade over the proposed pipe line, and a plan accompanies each profile showing divisions of estates, ownership and houses:

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Name of Street.	Between what Points.	Length in Feet.
Academy avenue	505 feet south of Smith street and a point southerly	100
Alger avenue	Whitney street and northerly termination	1,100
Allen's avenue (Cranston)	Albert street and Columbia avenue	250
Allen's avenue	Public street and Rhodes street	440
Andrews avenue	Angle east of Manton avenue and a point northerly	200
Arnold avenue (Cranston)	120 feet east of Allen's avenue and a point easterly	100
Asia (Cranston)	Cranston street and a point westerly	450
Atwood avenue (Johnston)	Plainfield street and a point northwesterly	600
Auburn (Cranston)	Hayward street and Midler street	600
Auburn (Cranston)	Pontiac street and Reservoir avenue	2,200
Babbitt	Black street and a point easterly	200
Barrows (Johnston)	Harrison street and Dyer avenue	525
Bay View avenue (Cranston)	200 feet east of Broad street and a point easterly	300
Bedford	Admiral street and Cornwall street	775
Berkshire	Admiral street and Salina street	350
Berkshire	Salina street and Cornwall street	425
Bernard	Babcock street and Fisk street	200
Black	Babbitt street and a point southerly and northerly	200
Blackamore avenue (Cranston)	Pontiac street and Summer street	1,250
Blasdell (Cranston)	Rugby street and Reservoir avenue	825
Chatlet (Johnston)	Hartford avenue and Congdon avenue	700
Chestnut avenue (Cranston)	Pontiac street and Summer street	1,250
Cliff	Valley street and Allston street	400
David	150 feet north of Tyler street and a point northerly	100
Doane (Cranston)	Narragansett street and Burnham street	1,250
Doyle avenue	450 feet east of Olney street and a point easterly	300
Elliott	Union avenue and Highland street	500
Essex (Cranston)	Rugby street and Reservoir avenue	1,000
Eudora	Eddy street and a point easterly	300
Fair (Warwick)	80 feet south of angle and a point southerly	1,100
Faith	Burrington street and a point southerly	100
Farragut avenue	Roger Williams avenue and a point easterly	450
Fisk	Bernard street and Cactus street	400
Frankfort	350 feet south of Balch street and a point southerly	200
Garden (Cranston)	250 feet south of Auburn street and a point southerly	100
Garfield (Cranston)	Cranston street and a point southerly	150
Grand View	Highland street and Camp street	500
Hagan	Langdon street and Mendon street	400
Hamlin	Elmwood avenue and Alger avenue	500
Harwood (Cranston)	Rugby street and Reservoir avenue	850
Hawkins	Branch avenue and Charles street	300
Hayward (Cranston)	Park avenue and Norfolk street	225
Hayward (Cranston)	Norfolk street and Auburn street	350
Hayward (Cranston)	Park avenue and Auburn street	600
Hazelwood (Cranston)	Auburn street and Reservoir avenue	575
Hilton	Willard avenue and a point southerly	250
Indiana avenue	Maryland avenue and a point easterly	250
Indiana avenue	Maryland avenue and Michigan avenue	800
Ivanhoe (Cranston)	Auburn street and Reservoir avenue	750
Kelly avenue (Johnston)	Old Killingly road and Railroad avenue	600
Knowles	Grand View street and Royal street	350
Lawn avenue (Warwick)	Fair street and a point easterly	600
Lawrence (Johnston)	Harlan street and a point northerly	250
Lexington avenue	Niagara street and a point easterly	300
Longmont	Admiral street and Yorkshire street	600
Lorea	Cranston street and Sorrento street	500
Melrose (Cranston)	Rugby street and Reservoir avenue	900

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Name of Street.	Between what Points.	Length in Feet.
Merino (Johnston)	North street and Nye street	700
Midler (Cranston)	Rugby street and Auburn street	400
Murphy	Atwells avenue and Cedar street	450
Newark	225 feet east of Academy avenue and a point easterly	75
Norfolk (Cranston)	Pontiac street and Hayward street	200
Norfolk (Cranston)	Pontiac street and Reservoir avenue	1,500
North (Johnston)	Merino street and a point easterly	250
Northup avenue (Cranston)	Broad street and a point easterly	500
Oakland avenue (Cranston)	Pontiac street and Summer street	1,250
Pacific avenue	Tyler and Van Zandt streets	200
Payton	200 feet west of Broad street and a point westerly	50
Pioneer (Johnston)	Hartford street and a point southerly	899
Pontiac (Cranston)	Blackamore avenue and Richard street	1,000
Pontiac (Cranston)	Park avenue and Norfolk street	500
Pontiac (Cranston)	Force main and a point 500 feet south of Sockanosset road	1,300
Porter	Baker street and Rugby street	450
Pratt	Jenckes street and a point northerly	200
Princess avenue (Cranston)	Governor street and a point northerly	435
Railroad avenue (Johnston)	Kelly avenue and a point easterly	400
Reservoir avenue (Cranston)	Park avenue and Auburn street	2,200
Reynolds avenue	Taylor street and a point westerly	290
Ridge (Cranston)	Cranston street and a point westerly	450
Rill	Aurora street and a point northerly	250
Robin	Regent avenue and Harvest street	250
Rockingham	Academy avenue and a point westerly	250
Rugby (Cranston)	Park avenue and Auburn street	1,250
Ruxton (Cranston)	Wollaston street and Midler street	450
Salina	Berkshire street and Suffolk street	200
Salina	Berkshire street and Cheshire street	850
Saunders	Lester street and Perkins street	225
School (Cranston)	Angle near Cranston street and Howard street	700
School (Johnston)	Trenton street and Lexington street	531
Seymour	Eddy street and Allen's avenue	1,350
Sockanosset road	Pontiac street and the railroad	650
Spooner	200 feet west of Elmwood avenue and a point westerly	100
Suffolk	Admiral street and Salina street	325
Summit avenue	Rochambeau avenue and a point northerly	200
Taber avenue	Irving street and University avenue	200
Thurbers court	Thurbers avenue and a point northerly	150
Waterman avenue (Cranston)	Pontiac street and Summer street	1,250
Waverly	Huntington avenue and a point easterly	250
Wayne	Nolan street and Candace street	500
Whipple avenue (Cranston)	Cranston street and Cory avenue	350
Wollaston (Cranston)	Hayward street and Reservoir avenue	1,450
Woodward road	Dakota street and a point southerly	100
	Total	55,361

or 10.485+ miles.

Grades and curb lines of the following streets have been defined for street construction. The curbing assessments have also been allotted to abutting estates where required :

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Name of Street.	Between what Points.	Length in Feet.
Abbott	Knowles and Camp streets	598
Aborn	Cedar and West Exchange streets	230
Allen's avenue (west side)	A point 92 feet south of Henderson street and a point southerly	148
Alma	Pekin and Candace streets	421
Althea	Cranston and Dexter streets	1,660
Atlantic avenue	Elmwood avenue and Melrose street	849
Barker (east side)	Federal street and a point northerly	167
Burrington	Pacific and Crocker avenues	772
Charles	Ledge and Hagan streets	1,453
Clifford (west side)	Richmond and Page streets	278
College	Benefit street and a point easterly and westerly	235
East avenue (west side)	Doyle avenue and a point northerly	100
Eddy	Weybosset and Ship streets	1,465
Eden	Broadway and angle northerly	159
Ellery	Wendell street and Chapin avenue	220
Evergreen	North Main and Camp streets	1,141
Forest	Camp and Ivy streets	609
Friendship	Richmond and Eddy streets	579
Fruit	Broad street and Gordon avenue	616
Gordon avenue	Public and Oxford streets	1,484
Governor (west side and old Governor)	Power and Williams streets	195
Harris avenue	Acorn and Eagle streets	2,080
Hewes	North Main street and a point southerly	300
Hudson	Ellery street and Huntington avenues	525
Jillison (south side)	Rugby and Broad streets	110
Kossuth	Putnam and Bowdoin streets	210
Manton avenue (south side)	Angle at Chalkstone avenue and a point westerly	50
Maryland avenue	New York and Montgomery avenues	1,783
Miller avenue	Broad street and westerly termination	2,061
Noyes avenue (east side)	Potters avenue and a point southerly	177
Oakland	Elmwood avenue and Public street	173
Orchard	Oxford and Fruit streets	330
Page	Pine and Clifford streets	411
Pine	Potters and Hay streets	764
Pitman (north side)	A point 155 feet west of Butler avenue and a point westerly	54
Planet (north side)	South Water street and a point easterly	51
Plum	Oxford and Fruit streets	353
Potter	Friendship and Pine streets	215
Railroad	Gaspee and Francis streets	415
Reynolds avenue	Broad and Taylor streets	602
Rhodes	Eddy street and Allen's avenue	869
Rugby (west side)	Broom and Jillson streets	216
Shawmut	Chalkstone avenue and Orms street	611
Silver Spring	Charles street and Branch avenue	1,514
Sims avenue	Harris and Kinsley avenues	753
South	Eddy street and harbor line	608
Stampers	Hewes street and a point southerly	80
Stillman	Promenade street and near Gaspee street	462
Summer (east side)	Conduit and Meadow streets	160
Taylor	Glenham street and Chester avenue	433
Tingley	Acorn street and Ashley avenue	330
Union (east side)	Broad and Middle streets	164
Washington (south side)	Walker and Eddy streets	1,089
Waterman	East River street and the bridge	214
Wendell	Messer and Ellery streets	725
West Exchange	Sabin and Aborn streets	1,320
West River	Branch avenue and the West river	692
Willow	Messer and Ellery streets	418
Williams	Governor street and a point westerly	80
	Total	34,761

or 6.587+ miles.

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Grades and curb lines of the following streets were marked for the sewer and highway departments for setting catch basin copings and chutes:

Abbott street, near Bolander street.
Althea street, near Sorrento street and Union avenue.
Andem street, near Canton street.
East avenue, near Woodbine street.
Frank street, near Plain street.
Goddard street, between Candace street and Douglas avenue.
Grand avenue, near South Angell street.
Harris avenue, between Eagle street and Ashley avenue.
Harris avenue, between Kinsley avenue and Brayton avenue.
Lexington avenue, near Hamilton street.
Lillian avenue, near Broad and Baxter streets.
Linwood avenue, near Sorrento street.
Madison avenue, near Grand avenue.
Marlborough street, near East Beacon street.
Mason street, near Cove street.
Norwich avenue, near Broad street.
Pomona avenue, near Pemberton street.
Reynolds avenue, near Taylor and Broad streets.
Rhodes street, between Allen's avenue and Eddy street.
Rhode Island avenue, near Grand and Madison avenues.
Shawmut street, near Kane street.
Sims avenue, near Harris and Kinsley avenues.
Taylor street, near Potters avenue.
Van Zandt street, near Pacific avenue.

Vertical locations of street railroad tracks have been marked at intervals of about thirty feet for the laying of the rails in streets as follows:

Atwell's avenue, between Knight and Bradford streets.
Broadway, between Aborn and Barton streets.
Camp street, between Olney and Evergreen streets.
College street, portions of.
Dorrance street, between Friendship and Dyer streets.
Dyer street, between Dorrance and Pine streets.
East avenue, between Olney street and Rochambeau avenue.
Eddy street, between Jillson street and New York avenue.
Friendship street, between Richmond and Chestnut streets.
Maryland avenue, between New York and Montgomery avenues.
Miller avenue, between Broad street and westerly termination.
New York avenue, between Eddy street and Maryland avenue
Richmond street, between Ship and Point streets.
South Water street, between James and Crawford streets.
Tockwotton street, between East and Gano streets.
Traverse street, between Pike and Wickenden streets.

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Waterman street, between East River and Prospect streets.
Westminster street, between Franklin and Cranston streets.

A total length of 36,973 feet, or 7.002+ miles.

Grades of the following streets have been marked upon the ground at intervals of about fifty feet for street grading, or for the benefit of individuals owning abutting property:

Name of Street.	Between what Points.	Length in Feet.
Bedford	Admiral and Cornwall streets	778
Bolander	Abbott and Grand View streets	483
Burrington	Jackson avenue and David street	457
Chambers	Potters and Huntington avenues	597
Cornwall	Suffolk and Longmont streets	721
Dorrance	Friendship and Dyer streets	406
Dyer	Westminster and Dorrance streets	1,452
East avenue	Blackstone boulevard and a point southerly	600
East avenue	Doyle and Rochambeau avenues	3,134
Frank	Beacon avenue and Plain street	486
Grand avenue	South Angell street and Hawthorne avenue	1,313
Hay	Pine and Friendship streets	220
Hudson	Huntington avenue and Ellery street	522
Huntington avenue	A point 273 feet west of Cranston street and a point westerly	216
Indiana avenue	Eddy street and Maryland avenue	1,753
Jillson	Rugby and Eddy streets	487
Lillian avenue	Broad and Baxter streets	640
Linwood avenue	Cranston street and Union avenue	1,232
Longmont	Admiral and Cornwall streets	814
Madison avenue (south side)	Grand avenue and a point westerly	100
Maryland avenue	New York and Montgomery avenues	1,783
Massachusetts avenue	Broad street and a point easterly	1,954
Miller avenue	Broad street and westerly termination	2,061
Ohio avenue	Eddy street and Virginia avenue	913
Orange	Dyer and Weybosset streets	706
Osborn	Vale street and Chalkstone avenue	1,077
Pacific avenue	Balch street and a point southerly	232
Page	Pine and Friendship streets	209
Peck	Pine and Dyer streets	354
Pitman	Butler avenue and East River street	854
Porter	Baker and Rugby streets	480
River avenue	Chalkstone avenue and Smith street	2,956
Salina	Suffolk and Hawkins streets	1,993
Silver Spring	Branch avenue and Ashton street	359
Sims avenue	Harris and Kinsley avenues	753
Stillman	Promenade street and near Gaspee street	462
Suffolk	Admiral and Cornwall streets	778
Tell (south side)	A point 158 feet west of Almy street and a point westerly	80
Virginia avenue	Massachusetts and Montgomery avenues	337
Wadsworth	Cranston and Sorrento streets	514
Washington avenue	Eddy street and Maryland avenue	1,760
West River	Branch avenue and the West river	692
Winthrop	Pacific avenue and a point westerly	114
Wood	Huntington avenue and Ellery street	547
	Total	38,378

or 7.268+ miles.

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Grades, either proposed or established, have been defined and marked out upon the ground for parties intending to build, as follows :

STREET.	FOR	REMARKS.
Abbott	John Burns	Established.
Academy avenue	Martha A. Fisher	"
Adelaide avenue	Gorham Manufacturing Company	Proposed.
Allen's avenue	Almy Water Tube Boiler Company	Established.
Althea	Daniel Troy	Proposed.
Althea	S. A. Hopkins	Defined.
Anthony avenue	Isabella Tweed	"
Atlantic avenue	L. H. Tillinghast	Established.
Barre	A. M. Smith	Defined.
Bedford	F. W. Ormsbee	"
Berkshire	Charles Burmingham	"
Berkshire	Narragansett Real Estate Company	"
Berkshire	Samuel and Thomas Wornuck	"
Berkshire	Narragansett Real Estate Company	Proposed.
Berkshire	Narragansett Real Estate Company	Defined.
Blackstone boulevard	Swan Point Cemetery	Established.
Blackstone boulevard	Butler Hospital	"
Calla	John A. Murray	Proposed.
Chambers	Patrick Coleman, heirs	Defined.
Charles	Angelantonio Vicolonio	Established.
Concord	Edward Kiernan	Defined.
Concord	George Carr	"
Culver	John R. Shirley	"
Culver	William Spofford & Son	"
Curtis	John Comer	"
Derry	H. W. Heaton	"
Douglas avenue	Francesco Cardarelli	Established.
Douglas avenue	Ellen P. Walsh	"
Doyle avenue	Mary Hannigan	Defined.
Doyle avenue	James Hannigan	"
Dudley	John R. Shirley	"
Duffy	Patrick Magill	"
Dyer	Providence Building Company	Changed.
Dyerville road	James F. Costello	Defined.
Early	Eliza R. Corscaden	"
Early	Catherine Fitzpatrick	"
Early	John Daly	"
Early	Thomas Spence	Established.
East avenue	John McLeod	"
East avenue	Charles Sisson	"
East avenue	Fred E. Hosmer	"
Eleventh	Patrick Campbell	Proposed.
Elton	Matthew J. Cummings	Established.
Evergreen	Alfred H. Combe	Defined.
Evergreen	Patrick Leddy	"
Felix	Charles Cederberg	"
Felix	Bernard McGuinness	"
Fenner avenue	Noah H. Pernell	Established.
Forest	Salisbury Estate	Defined.
Francis	Superintendent of Public Buildings	Proposed.
Frost	John P. Fish	Defined.
Globe	G. W. Dickinson	Proposed.
Goddard	Bernard Fanning	Defined.
Gordon avenue	Zipporah Coffin	Established.
Grotto avenue	Alice M. Cady	Defined.
Harris avenue	William Gilbane & Bro	Established.
Harris avenue	Granger Foundry	"
Harris avenue	Stafford Manufacturing Company	"
Hawkins	Wanskuck M. E. Church	"
Henderson	Superintendent of Public Buildings	Proposed.
Indiana avenue	Maria Walcott	"
Indiana avenue	William Scattergood	"
Irving	George A. Youlden	"
Irving avenue	W. L. Slade	Defined.
Irving avenue	E. M. Harris	Changed.

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STREET.	FOR	REMARKS.
Jefferson avenue	Thomas Muldoon	Proposed.
Lancaster	Stephen G. Northup	Defined.
Lancaster	Stephen G. Northup	"
Lancaster	George Wood	"
Lawrence	Annie Burke	"
Linwood avenue	J. S. Eddy	Defined and Changed.
Longmont	David Robinson	Defined.
Longmont	S. A. Whitford	"
Longmont	James Dawson	"
Longmont	Narragansett Real Estate Company	Proposed.
Longmont	Narragansett Real Estate Company	Defined.
Manomet	Frank Francis	"
Marlborough	Thomas Towhey	Established.
Marlborough	John F. and William J. Keenan	"
Massachusetts avenue	Stephen Condon	Proposed.
Massachusetts avenue	F. A. Willard	Defined.
Massachusetts avenue	William S. Davenport	"
Massachusetts avenue	C. O. Hall	"
Melrose	Frances A. Root	Established.
Michigan avenue	William Scattergood	Proposed.
Murphy	Catherine Slavin	"
Nashua	John P. Fish	Defined.
New York avenue	Henry H. Howard	"
New York avenue	Henry H. Howard	"
Niagara	John Chappell	"
Niagara	Grace M. Reynolds	"
Noyes avenue	Henry S. Latham	Proposed.
Osborn	Charles A. Phillips	Established.
Pacific avenue	Charles R. Barstow	Defined.
Peace	James A. McKenna	Proposed.
Peck	H. M. K. Brownell	Changed.
Pine	H. M. K. Brownell	"
Planet	Oakdale Manufacturing Company	Proposed.
Plum	Mary Traynor	Established.
Pomona avenue	John Donnelly	Defined.
Porter	Perry E. Field	Proposed.
Post Office court	Providence Building Company	Changed.
Pratt	Charles H. Cohen	"
Richardson	William Allen	Established.
Robin	Cyrus Le Lacheur	Defined.
Robin	Charles V. Machon	"
Sackett	Frances A. Root	"
Salina	S. A. Whitford	"
Salina	Narragansett Real Estate Company	"
Salina	S. A. Whitford	"
Salina	Narragansett Real Estate Company	"
Seymour	James M. Deignan	"
Sisson	Albert Pike	"
Smith	William J. Latham	Established.
Smith	L. S. Howes	"
Sorrento	E. A. Whitney	Defined.
Stillman	Superintendent of Public Buildings	Proposed.
Summer	Lester S. Hill	"
Taber avenue	W. L. Slade	Defined.
Third	Nellie Freeman	"
Unit	Bridget Dolan	"
Van Zandt	Margaret and Catherine Borden	Proposed.
Van Zandt	Alonzo P. Mowry	"
Vermont avenue	Frank E. Corbett	Defined.
Vermont avenue	Walter D. Howard	"
Wadsworth	Henry C. Bushnell	Proposed.
Wadsworth	B. F. Potter	"
Waldo	E. A. Whitney	Defined.
Waldo	Thomas C. Kickum	Changed.
Waldo	Eliza J. Smith	Defined and Changed.
Washington	Dutee Wilcox	Established.
Washington	Blackstone Hall Company	"
Washington	Joseph P. Cory	"
Washington	Edwin R. Gardiner	"
Washington	A. H. Cory	"

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STREET.	FOR	REMARKS.
Washington	Mrs. William Gardiner	"
Washington	Wm. H. Earle	Changed.
Washington	George H. Slade estate	"
Wayne	C. H. Poole	"
Wayne	James Kelly	"
West Park	Richard Bromley	Defined.
West Park	John R. Mehan	"
Winthrop avenue	Frank Francis	"
Wood	Bernard Reynolds	"
Yorkshire	Thomas Rooney	"

Following is a list of streets upon which grades have been defined, established or changed by the board of aldermen during the year:

NAME OF STREET.	BETWEEN WHAT POINTS.	LENGTH IN FEET.	REMARKS.	
Aborn	Cedar and West Exchange streets	230	Established	Dec. 19
Bedford	Admiral and Cornwall streets	950	Defined	May 16
Berkshire	Admiral and Cornwall streets	950	"	May 16
Bolander	Grandview and Abbott streets	467	Established	Mar. 21
Cheshire	Sussex and Cornwall streets	985	Defined	May 16
College	Benefit street and a point easterly	200	Changed	June 6
Cornwall	Hawkins and Suffolk streets	2,300	Defined	May 16
Cove	Aborn and Sabin streets	1,320	Established	Sept. 19
Dunwell's gangway	Weybosset and Dyer streets	237	"	Sept. 19
Eames	Olney and Mumford streets	550	Defined	Nov. 21
East River	Waterman and Pitman streets	200	Established	Nov. 21
Elmhurst avenue	Smith and Eaton streets	850	"	Dec. 19
Emeline	Olney street and Elmgrove avenue	1,450	Defined	Nov. 21
Frank	Beacon avenue and Plain street	485	Established	Mar. 21
Greeley	Charles and Opper streets	653	"	Dec. 19
Kossuth	Putnam and Bowdoin streets	210	"	May 2
Lexington avenue	Hamilton and Niagara streets	500	"	June 20
Lillian avenue	Broad and Baxter streets	620	"	Dec. 19
Longmont	Admiral and Cornwall streets	950	Defined	May 16
Marlborough	East Beacon and Pearl streets	480	Established	Mar. 21
Maryland avenue	Montgomery and Massachusetts avenues	493	"	June 6
Miller avenue	Broad street and westerly termination	2,061	"	Aug. 1
Mumford	Emeline and Olney streets	524	Defined	Nov. 21
Norwich avenue	Broad and Baxter streets	620	Established	Dec. 19
Oakland	Elmwood avenue and Public street	173	"	Sept. 19
Orchard	Fruit and Oxford streets	330	"	Sept. 19
Planet	South Main and South Water streets	170	Changed	June 6
Planet	South Main and South Water streets		"	Nov. 21
Plum	Fruit and Oxford streets	353	Established	Mar. 21
Rhodes	Eddy street and Allen's avenue	869	"	Sept. 19
Salina	Hawkins and Suffolk streets	2,150	Defined	May 16
Shawmut	Orms street and Chalkstone avenue	611	Established	Mar. 21
Sims avenue	Harris and Kinsley avenues	753	"	May 2
Stillman	Promenade and Gaspee streets	557	"	July 2
Suffolk	Admiral and Cornwall streets	750	Defined	May 16
Taylor	Potters avenue and Buckley street	400	Established	Mar. 21
Van Zandt	Jackson and Hamburg avenues	400	"	Dec. 19
Waterman	A point 100 feet west of East River street and Red bridge	350	Changed	Dec. 19
West River	Branch avenue and the bridge over the West river	693	"	Sept. 19
Yorkshire	Hawkins and Longmont streets	1,350	Defined	May 16
	Total	28,193		

or 5.339+ miles.

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By request of the committee on highways, plats of twenty streets have been examined to ascertain if grades may be defined for them; also reports have been made upon eleven streets that have been found at grade in reply to petitions for receiving said streets.

Upon the request of the committee on claims, a plan was made showing elevations and sections of the roadway at the intersection of Congdon and Jenckes streets.

During the year, estimates of the cost of improving streets were furnished the various committees, as follows:

FOR STREET CONSTRUCTION.

Name of Street.	Made by Order of	Work Ordered.				Work Not Ordered.	
		Completed.		Not Completed.			
		Length in Feet.	Estimated Cost.	Length in Feet.	Estimated Cost.	Length in Feet.	Estimated Cost.
Benefit.....	Committee on Highways.. ...	.....	.....	5,400	$5,137 44	.....	.....
East avenue..	Committee on Highways.....	3,123	$10,000 00	.....	.....	.....	.....
*Elmwood av.	Special Committee.	.....	.....	.....	.....	2,430	$29,090 48
*Elmwood av.	" " ..	.....	.....	.....	.....	2,430	45,682 23
†Governor.....	Committee on Highways.....	196	1,510 00	.....	.....	.....	.....
Miller avenue.	Committee on Highways	2,061	11,000 00	.....	.....	.....	.....
West River....	Commissioner of Public Works..	692	2,000 00	.....	.....	.....	.....
		6,071	$24,510 00	5,400	$5,137 44	4,860	$74,772 71

* Estimate includes widening.
† Includes old Governor street.

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FOR EARTH WORK AND GRADING.

Name of Street.	Made by Order of	Work Recommended.		Work Not Recommended.	
		Cubic Yards.	Estimated Cost.	Cubic Yards.	Estimated Cost.
Barstow	Committee on Highways			38,500	$9,625 00
Calla	" " "			513	102 60
Cedar	" " "			114	39 90
Concord	" " "			7,600	3,456 00
Ellery	" " "			1,670	250 50
Fruit Hill avenue	" " "			1,306	714 40
Hillside avenue	" " "			2,230	669 00
Miller avenue	" " "	12,190	$2,194 20		
*Mt. Pleasant ave. and extension	" " "	2,705	4,006 60		
Niagara	" " "			300	60 00
*Niagara and extension	" " "			3,960	5,472 00
Noyes avenue	" " "			385	61 60
Slater avenue	" " "			9,626	4,235 44
Stanwood	" " "			2,488	
*St. James	" " "				1,660 00
Tell	" " "			2,170	542 50
Waldo	" " "			4,029	725 22
Wheaton avenue	" " "			1,440	216 00
Woonasquatucket avenue	" " "			2,183	654 90
		14,895	$6,200 80	78,514	$28,485 06

* This estimate includes land damages.

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FOR STREET PAVEMENT.

Name of Street.	Made by order of	Work Ordered.		Work Not Ordered.		Remarks.
		Square Yards.	Estimated Cost.	Square Yards.	Estimated Cost.	
Benefit	Committee on Streets	.....	.....	6,347	$26,974 75	Granite blocks.
Benefit	" " "	.....	.....	10,317	27,855 90	Asphalt.
Broadway	Committee on Highways.	4,194	$10,516 66	.....	.....	Granite blocks.
Broadway	" " "	26,129	69,241 85	.....	.....	Asphalt.
Broadway	" " "	.....	.....	6,400	25,190 00	Granite blocks.
Eddy	" " "	4,003	9,834 00	.....	.....	Granite blocks.
Eddy	" " "	1,540	954 36	.....	.....	Cobble.
Snow	" " "	.....	.....	795	2,594 41	Asphalt.
Snow	" " "	.....	.....	795	2,321 33	Brick.
Traverse	" " "	.....	.....	989	2,648 86	Granite blocks.
West Exchange	Commissioner of Public Works	5,417	23,200 00	.....	.....	Granite blocks.
		41,283	$113,746 87	25,643	$87,585 25	

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For sidewalk pavement, including assessment to abutting estates, where required :

Name of Street.	Made by Order of	Square Yards.	Lineal Feet.
Atlantic avenue	Commissioner of Public Works	109.4	109.
Bacon	" " " "	265.2	398.
Bassett	" " " "	64.5	100.
Beacon avenue	" " " "	141.0	159.
Broad	" " " "	2,562.3	2,096.
Burrill	" " " "	65.8	108.
Camp	" " " "	773.0	732.
Carpenter	" " " "	37.6	38.
Carrington avenue	" " " "	82.4	82.
Clifford	" " " "	9.9	11.
Cushing	" " " "	379.8	456.
Doyle avenue	" " " "	723.0	566.
Dyer	" " " "	185.8	146.
Eddy	" " " "	1,880.2	2,256.
Elm	" " " "	76.1	88.
Elmwood avenue	" " " "	187.0	191.
Friendship	" " " "	1,108.3	1,330.
Governor	" " " "	282.0	314.
Hewes	" " " "	317.0	380.
Hoppin	" " " "	52.0	48.
Linden	" " " "	132.1	158.
Lockwood	" " " "	224.4	250.
Olney	" " " "	2,014.2	1,475.
Orange	" " " "	67.4	81.
Page	" " " "	591.0	710.
Peck	" " " "	180.1	216.
Pine	" " " "	882.4	1,059.
Point	" " " "	266.6	209.
Prairie avenue	" " " "	443.3	434.
Providence	" " " "	73.8	88.
Reservoir avenue	" " " "	239.3	215.
Stewart	" " " "	105.1	105.
Summer	" " " "	200.6	241.
Walker	" " " "	33.0	47.
Walnut	" " " "	237.5	118.
Washington avenue	" " " "	200.5	300.
Williams	" " " "	107.3	194.
		15,300.9	15,508.

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For concrete top dressing laid over gutter pavement:

NAME OF STREET.	MADE BY ORDER OF	SQUARE YARDS.
Alma	Commissioner of Public Works	273.2
Althea	" " " "	1,284.3
Atlantic avenue	" " " "	660.5
Burrington	" " " "	482.4
Dexter	" " " "	90.0
Fruit	" " " "	366.3
Gordon avenue	" " " "	891.6
Miller avenue	" " " "	1,760.0
Oakland	" " " "	115.0
Plum	" " " "	232.7
South	" " " "	423.5
Taylor	" " " "	261.6
Tingley	" " " "	266.0
Wendell	" " " "	568.7
Willow	" " " "	289.0
		7,964.8

Total lineal feet of concrete top dressing, laid, twenty-one thousand three hundred and forty-four, or four and forty-two thousandths miles.

Measurements of asphalt top dressing laid in nineteen different streets, amounting to two thousand four hundred and sixty-seven square yards, were furnished to the Commissioner of Public Works.

Measurements of sidewalks repaired in twenty-three different streets, amounting to one thousand three hundred and fifty-eight and five-tenths square yards, were furnished to the Commissioner of Public Works.

Six sub-divisions of curbing assessments required on account of real estate transfers were furnished the City Treasurer.

Estimates were furnished to the Commissioner of Public Works and Committee on Highways of new work ordered by the board of aldermen and city council in forty-five different streets, amounting to four hundred ninety-six thousand three hundred and eighty-one dollars and twenty cents.

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Recapitulation of work performed by the highway department:

DIVISION.	No. of Streets.	Cost.	Length.	
			Feet.	Miles.
CONSTRUCTION OF STREETS.				
Streets built and roadway macademized	15		9,771	1.850+
Streets built and roadway graveled	16		13,472	2.551+
Streets paved	21		24,453	4.631+
Streets graded	14		18,981	3.594+
Work ordered and not commenced	18		24,377	4.616+
PROFILES MADE AND GRADES MARKED.				
Profiles for defining grades	54		44,512	8.430+
Profiles for water pipe estimates	92		55,361	10.485+
Grades marked for street construction	59		34,781	6.587+
Grades marked for sewer department	23			
Grades marked for railroad construction	18		36,973	7.002+
Grades marked for earth grading	43		38,378	7.268+
Grades marked for parties intending to build	93	146 applications		
Grades changed, established or defined	39		28,193	5.339+
ESTIMATES PREPARED.				
For street construction	6	$104,420.15	16,331	3.092+
For earth grading, 93,409 cubic yards	18	34,665.86		
For street pavement, 66,926 square yards	6	201,382.12		
For sidewalk pavement, 15,300.9 square yards	37		15,508	2.937+
For concrete top dressing, 7,964.8 square yards	15		21,344	4.042+
For asphalt top dressing, 2,467. square yards	19			
For sidewalks repaired, 1,358.5 square yards	23			

The force employed in this department has been: J. Vinton Dart, assistant engineer, in charge of highway department; Henry J. Reynolds, Walter P. Andrews, Charles M. Hunt, William C. Bourn and James L. Dodge, principals; John W. Keily, draughtsman; William H. Silloway, John B. Buchanan, Walter V. Lawton, Henry G. McCarthy, assistants. Walter A. Presbrey, Harry A. Briggs, principals; Herbert N. Cole, L. Frederick Patstone, John B. Carr, Lester F. Allen, James A. Stetson, assistants, have also devoted a portion of their time to this department.

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STREET LINE DEPARTMENT.

The following street lines were marked for various parties upon notices of intention to build, during the year 1895:

Notice Number.	In Name of	Street.	Remarks.
10,290	William H. Shattuck....	Ashmont street.....	
10,292	C. H. Poole	Wayne street.....	
10,293	Matthew English & wife.	Rhodes street.....	
10,294	Joseph A. Grimes.....	Courtland and Tell streets.....	
10,295	Tobias Burke.....	Plain and Bishop streets	
10,296	Vincent Bowen and Thos. H. Doane.....	Chapin avenue.....	
10,297	Mary McElroy.....	Atwells avenue	
10,298	E. J. Knight.....	Huntington avenue.....	
10,299	George H. Slade estate..	Washington street.....	
10,300	Mrs. Isabella Tweed.....	Cranston street.....	
10,301	Mary M. Boylan et al....	Dudley street.....	
10,302	Eliza J. Smith.....	Waldo street.....	
10,303	Eliza R. Coscarden.....	Broad street.....	
10,304	Joseph McGroarty.....	Hagan street	Approximate.
10,305	R. & Anna F. Mathewson	Westminster street.....	
10,306	Frances A. Root.....	Sackett and Melrose streets.....	
10,307	Mary Hannigan	Doyle avenue.....	
10,308	Edward E. Smith.....	Ford and Bucklin streets	
10,309	Margaret E. Cummings..	Willard avenue and Taylor street..	
10,310	James M. Degnan.....	Seymour street	
10,311	Angelantonio Viccione and wife.....	Charles street.....	
10,312	Antonio A. Mariana.....	" "	
10,313	Michael J. McCarron est.	Palmer street.....	
10,314	Daniel J. McCarron	Hedley street.....	
10,315	Frederick A. Brown	Broad street.....	
10,316	J. G. McIntosh	Olney and Brown streets	
10,317	Pierre Chapdelaine.....	Westminster street.....	
10,318	Thomas Spencer.....	Prairie avenue.....	
10,319	James F. Costello.....	Dyerville road and Manton avenue	
10,320	Bernard Fanning & wife.	Goddard street.....	
10,321	William E. Williams, heirs	Washington and Snow streets....	
10,322	Peter Poland.....	Bogman street.....	
10,323	W. J. Beane.....	Mt. Pleasant and Fairview avenues and Chaucer street.....	
10,324	W. E. Randall	Broad and Oxford streets.....	
10,325	Estate of John K. Lester.	B street.....	
10,326	B. Thomas Potter	Wadsworth street.....	
10,327	Mrs. Mary L. P. Hawes..	Marlborough avenue.....	
10,328	Thomas Kay and wife....	Dennison street.....	
10,329	Charles H. Chapman....	Oriole avenue	
10,330	Dennis Casey.....	Wickenden street.....	
10,331	Richard Rowe.....	Branch avenue.....	
10,332	Thomas Duffy and wife..	" "	
10,333	E. B. and C. B. Lester...	Willow street.....	
10,335	B. Thomas Potter.....	Wadsworth street.....	
10,336	" " "	" "	
10,337	" " "	" "	
10,338	Thomas C. Douglas and wife.....	Gay and Dudley streets.....	

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Notice Number.	In Name of	Street.	Remarks.
10,339	Stephen Condon	Massachusetts avenue	
10,340	James McPhillips	River avenue	
10,341	B. F. Humes.	Plymouth street	
10,342	" "	Plymouth street and Potters avenue	
10,343	O. E. Jones	Central street	
10,344	Mary E. Brennan	Gallup street and Prairie avenue	
10,345	Herbert Taylor	Johnson and Rugby streets	Approximate.
10,349	Henry G. Day	West Friendship street	
10,350	George W. Dickerson	Globe street	
10,351	Franklin R. Young & wife	Hanover street	
10,352	William J. Watson	Inkerman street	
10,353	Annie E. S. Harrington	Meeting and Brook streets	
10,354	Patrick Morrin	Mulvay avenue	
10,355	Mrs. Annie L. Chase	Blackstone street	
10,357	Stanton B. Champlin and son	Weybosset street	
10,358	Charles M. Nichols	Cranston street	
10,359	Arthur O. Ostby	Lexington avenue	
10,360	Seth Hunt, Jr., heirs	Franklin street	
10,361	John Chappell	Mitchell and Niagara streets	
10,362	Mrs. William Gardner	Washington and Walker streets	
10,363	William S. Davenport	Massachusetts avenue	
10,364	James Watrous	Prairie avenue and Oxford street	
10,365	Jeremiah S. Towle	Lexington avenue	
10,366	Susan G. Harris	South Angell street	
10,367	P. F. and A. F. Charles	Dudley street	
10,368	Ann Macomb	Cypress street	
10,369	Second United Presbyterian Church	Chalkstone and Young avenues	
10,370	A. H. Cory	Washington street	
10,371	George W. Williams	Sycamore and Oak streets	
10,372	William J. Latham	Smith street	
10,373	Thomas Stubbs	Penn street	
10,375	George Humphrey & wife	Lloyd street	
10,376	John Laden	Furnace street	
10,377	Nathan H. Truman	Chestnut street	
10,379	Antonio Castiglioni	Spruce and Murphy streets	
10,380	Mrs. Mary A. Clear	Prairie avenue	
10,381	B. P. Stewart and wife	Wadsworth and Cranston streets	
10,382	Mrs. Sylvester Angell	Broad street	
10,383	Mrs. E. M. Knight	Cranston street	
10,384	Mrs. B. F. Lilley	Weybosset, Union and Middle sts.	
10,385	Bridget T. Flynn	Turner street	
10,386	J. S. Eddy	Linwood avenue	
10,388	A. G. Tillinghast	North Main and Woodbine streets.	
10,389	Robert Magill estate	Duffy and McMillen streets	
10,390	Liza Brophy	Willard avenue	
10,391	S. R. Brown and wife	Elmwood ave. and Thurston street.	
10,392	Martha A. Fisher	Academy avenue	
10,393	B. D. Sweet	Fairview street	
10,395	James Watrous	Prairie avenue	
10,397	William Scattergood and wife	Indiana and Michigan avenues	
10,398	William H. Graham	Mowry and Admiral streets	
10,399	Mary A. Wheaton	Branch avenue	
10,400	City of Providence	Eddy street	
10,402	Albert Pike and wife	Sisson street	
10,404	Macauley Brothers	Ocean street	
10,405	Henry H. Howard	New York avenue	
10,408	Andrew Lynch	Waverly street	
10,409	Narragansett Real Estate Co	Longmont street	
10,411	S. A. Whitford	Salina street	
10,413	Frederick Dowling	Douglas avenue	
10,415	William H. Earle	Washington street	
10,419	Asa Messer, heirs	Superior street	
10,420	Ann Leonard	Potters avenue	
10,421	Mrs. A. Frank Mowry	West Clifford street	
10,422	D. Bouchard	Hamilton street	
10,423	" "	Potters avenue	
10,424	Charles H. Cohen	Pratt street	

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Notice Number.	In Name of	Street.	Remarks.
10,427	Nancy E. Spencer	Alabama avenue	
10,429	Mrs. D. C. Wallace	Harold and Aurora streets	
10,430	John Gearin and wife	North Main and Eighth streets	
10,431	L. E. Remington	A street	
10,435	H. A. Smith	Olney street	
10,437	Alice M. Cady	Grotto avenue	
10,438	Charles Lindgren	Potters avenue and Burnside street.	
10,440	William J. Halcrow and wife	Somerset street	
10,444	John P. Fish	Nashua and Frost streets	
10,445	James F. Downes	East street	
10,446	Albert Leopsinger	Atlantic avenue	
10,449	Patrick Campbell	Highland ave. and Eleventh street.	
10,450	Mrs. Mary Traynor	Plum and Oxford streets	
10,451	Mrs. Maria Noon	Chapin avenue	
10,452	John Devlin and wife	Bogman street	
10,454	Edward C. Wilde	Potters avenue	
10,455	Jeremiah Sullivan and wife	Preston street	
10,456	Goodchild and Glines	Linden street	
10,457	George W. Whitford	Barnes street	
10,458	Abby L. Allen	East Manning street	
10,460	Francis D. Tift and wife	Dixon street	
10,463	William Hoffmayer	Althea street	
10,465	James C. Coutanche	Williams street	
10,466	Dutee Wilcox	Washington and Aborn streets	
10,467	John R. Shirley	Dudley and Culver streets	Culver street approximate.
10,468	Granger Foundry and Machine Company	Harris and Sims avenues	
10,469	William W. Rickard, trustee	Pine and Linden streets	
10,470	William E. Mitchell and wife	Lexington avenue	
10,471	Stephen G. Northup	Lancaster street	
10,472	Sander Olsen and wife	Public street	
10,473	John Burns	Abbott street	
10,474	Alfred H. Combe	Evergreen street	
10,475	Nicholas Molter	Howard street	
10,476	J. M. Hawes	Broad and Ontario streets	
10,477	L. H. Tillinghast	Atlantic avenue	
10,478	Herbert L. Webster	Updike and Daboll streets	
10,480	Robert Bailey	Lilac street	
10,482	Catherine Fitzpatrick	Early street	
10,483	Alfred A. Cyr	Broad and Cyr streets	Cyr street approximate.
10,484	Robert H. Lee	Chalkstone avenue	
10,485	Amanda A. Platt	Marlborough avenue	
10,486	William O'Brien & wife	Canton street	
10,487	A. A. Simmons	Bridgham street	
10,488	Robert Pettis	Orms and Winsor streets	
10,493	Thomas Wilmarth	Wendell street	
10,494	Mrs. Rachel Payne	Keene street	
10,497	Johanna O'Leary	South Main street	
10,498	Joseph Quinn	Preston street	
10,499	Thomas D. Muldoon	Jefferson avenue	Approximate.
10,501	Richard Bromley	Senter and West Park streets	
10,503	James A. McKenna	Peace street	
10,506	Thomas Towhey & wife	Marlborough street	
10,508	John Hogan and wife	Mawney street	
10,509	Henry W. Heaton	Derry street	
10,510	John Coleman	Lauriston street and Lorimer ave.	
10,511	Joseph C. Enos and wife	Carrington and East avenues	
10,514	Zipporah Coffin	Gordon avenue and Gallup street	
10,515	Emma L. Pierce	Hamilton street	
10,516	" " "	Hamilton and Stanwood streets	
10,517	Patrick Leddy and wife	Evergreen street	
10,518	John Bennett and wife	Dakota street	
10,519	William Gilbane and brother	Harris avenue	
10,521	S. A. Hopkins	Althea street	

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Notice Number	In Name of	Street.	Remarks.
10,522	City of Providence.....	Henderson street.....	
10,526	Frank Stokes and wife ..	Briggs street.....	
10,528	City of Providence.....	Greeley street.....	
10,529	City of Providence.....	Elmwood and Roger Williams aves	
10,530	Mary A. Whitford.....	Providence street.....	
10,531	Mrs. Delia Griffin.....	Brattle street.....	
10,532	John Clarke ...?.....	Sweetbriar street.....	
10,533	Elmer E. Underwood....	Cypress street.....	
10,534	Frederick H. Bohning...	Anthony avenue.....	
10,535	Mrs. Susan A. Carlin...	Jackson and Fountain streets.....	
10,536	Francis H. Andrews.....	Colfax street.....	
10,537	Catherine Donnelly heirs.	Burnside street.....	
10,540	William F. Mulgren.. ...	Atwell's avenue.....	
10,541	James Buchanan.....	Marlborough avenue	
10,542	Joseph A. Grimes.....	Tell and Courtland streets.....	
10,543	John Conner and wife...	Curtis street.....	
10,544	Charles A. Grant.....	Irving avenue.....	
10,545	William W. Rickard.....	Gay street.....	
10,546	Henry S. Latham.....	Noyes avenue.....	
10,548	C. O. Hall.....	Massachusetts avenue.....	
10,549	Catherine Gleason.....	Schofield street.....	
10,552	Thomas McMann.....	Steuben street.....	
10,553	Washington Broadhead.	Grand Broadway.....	
10,554	Albert Smith.....	Oakland avenue.....	
10,555	City of Providence	Ruggles and Sparrow streets	
10,556	Patrick Dugan.....	Hanover street	
10,557	Eliza R. Corscaden and E. J. Smith, agent.....	Early street.....	
10,558	Elizabeth J. Smith.....	Waldo street....	
10,559	George Carr and wife....	Concord street.....	
10,561	Bernard Reynolds and wife.....	Wood street.....	
10,563	C. E. Wescott.....	Sawyer street.....	
10,564	Egbert E. McIntosh and William L. Winslow...	Public street.....	
10,565	Catherine and Wm. H. O'Donnell..	Point street.....	
10,566	T. Henry Johnson.....	Bassett street.....	
10,567	Henry W. Heaton.....	Jessamine street.....	
10,569	Mathewson st. Methodist Episcopal Church.....	Mathewson street.....	
10,570	Liza Hye...	Prairie avenue.....	
10,571	Jeremiah Costine and wife.....	Adelaide avenue..... .	
10,572	Rudolph H. Breitenstein.	Crary street.....	
10,573	Charles E. Colwell.....	Manton avenue.....	
10,576	Thomas Boyd Jr.....	Moore street.....	
10,577	Moses E. Torrey.	Meeting street.....	
10,579	Gardiner M. Burgess heirs.....	Pond street.....	
10,580	Gardiner M. Burgess heirs.....	Stewart street.....	
10,581	Blackstone Hall Co.....	Washington and Snow streets.....	
10,582	John Taylor.....	Potters avenue	
10,583	Joel Metcalf.....	Keene street.....	
10,585	John Kelly and wife.....	Ives and Tockwotten streets.....	
10,586	Patrick Moroney.....	Eddy street.....	
10,587	James A. Simmons	Harkness street.....	
10,591	T. McQuade....	West Exchange street.....	
10,592	Samuel D. Baker.....	Bolander street.....	
10,593	J. W. Watson and son...	Governor and Benevolent streets..	
10,594	Patrick Ryan.....	Canton street.....	
10,595	Edward Kiernan..... .	Concord street.....	
10,597	Mrs. John M. Brennan ..	Wayland avenue and East Manning street	
10,598	Thomas F. Joyce.....	Chalkstone avenue	
10,600	Clara B. Jenks	Stewart street.....	
10,602	Nicholson File Co.....	Acorn and Tingley streets.....	

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Notice Number.	In Name of	Street.	Remarks.
10,603	Henry Duxbury.....	Admiral street.....	
10,604	Patrick Moroney.....	Summer street.....	
10,608	Edwin A. Briggs.....	Eddy street.....	
10,609	" " "	Swan street.....	
10,610	Matthew J. Cummings..	Elton street and Taber avenue.....	
10,611	Frank L. Thornton and wife.....	Pond street.....	
10,612	Albert J. Doyle.....	Florence street	
10,616	Valentine Knobloch.....	Lorimer avenue.....	
10,618	P. T. Banigan.....	Hope street.....	
10,619	Patrick Campbell and wife.....	Chace avenue and Eleventh street.	
10,620	Owen Magowan.....	West Exchange street.....	
10,623	S. A. Whitford.....	Salina and Longmont streets.....	
10,626	Rose Feldman.....	Quaid street.....	
10,630	Emma A. Handy.....	Cass and Eddy streets.....	Cass street Approximate.
10,631	Granger Foundry and Machine Co.....	Tingley street.....	
10,632	Bernard Kindelan estate.	Evergreen and North Main streets.	
10,633	Mrs. Anna Rosenfeld....	Summer street.....	
10,634	James Dacey and wife...	Smith street.....	
10,635	J. P. Cory.....	Washington street.....	
10,636	Benjamin D. Weeden....	Mathewson street.....	
10,638	I. B. and C. E. Lawton..	Broad street.....	
10,639	Allen estate.....	North Main street.....	
10,641	Mrs. Rachel Rubin.....	Bark street.....	
10,642	William E. Sutton.....	Linwood avenue.....	
10,643	Caproni Bros.....	Charles street.....	
10,644	John Daly.....	Early street.....	
10,646	Tobias Burke.....	Clemence and Washington streets.	
10,647	Mrs. Susan H. Osborn....	Admiral street.....	
10,648	Alexander Hill.....	Amy street	
10,651	Joseph Banigan.....	Preston and Governor streets.....	
10,652	" "	Governor street.....	
10,653	Patrick Coleman, heirs..	Chambers street.....	
10,663	Marcelo Iammo.....	Grape street.....	
10,665	P. E. Field	Porter street.....	Approximate.
10,666	Providence Building Co..	Weybosset and Dyer streets and Dunwell's gangway.....	
10,670	John N. Schott and wife.	Randall street.....	
10,671	Sarah Erby	Knowles street.....	
10,672	Kelly Bros.....	Fern street and Chalkstone avenue.	
10,674	S. & B. Lederer.....	Stewart street.....	
10,675	" " " "	Pine street.....	
10,676	Michael Hogan.....	Helen street	
10,678	Frank Curry.....	Pearl and Dudley streets.....	
10,679	Edward McKenney.....	Eddy and Borden streets.....	
10,680	Emma A. Handy	Rhodes street.....	
10,682	Patrick F. Fitzpatrick..	Brook street.....	
10,685	Bernard McGuinness....	West Exchange, Sutton and Cedar streets.....	
10,686	C. K. Richmond estate...	Fountain street.....	
10,687	N. Y. N. H. and H. R. R. Company	Smithfield and Northup avenues...	
10,688	Misses H. F. and E. M. Pierce.....	Cranston street.....	
10,689	James Hannigan & wife.	Doyle avenue.....	
10,692	William Gerke and wife.	Smith street.....	
10,694	Samuel Ames, agent.....	Perry street.....	
10,695	George W. Fraser.....	Burnett street.....	
10,696	Bernard McGuinness....	North Davis street.....	
10,709	R. W. Lockwood.....	Lisbon street	
10,708	Robert Pettis...	Winsor street.....	
10,707	Michael J. Welch.....	Regent avenue.....	
10,708	Mrs. John McGowan....	Fenner avenue.....	
10,710	William H. Richmond...	South street.....	
10,713	Earl P. Mason.....	Wood street.....	
10,714	James Kelly.....	Wayne street.....	

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Notice Number.	In Name of	Street.	Remarks.
10,715	A. H. Cary and wife.....	Depew street and Alger avenue....	
10,716	John A. Carty and wife..	Rhodes street.....	
10,719	Mrs. A. E. Chaffee.....	Porter street.....	Approximate.
10,722	William E. Clarke.....	Williams and Thayer streets.....	
10,723	John McLeod.....	East avenue.....	
10,724	Charles J. Sweet estate..	Hope and Transit streets.....	
10,725	Terrence McQuade.....	West Exchange and Acorn streets.	
10,728	" "	" " " " "	
10,732	Christian Mayer.....	Colfax street.....	
10,733	Mary S. Darling.....	Congress avenue.....	
10,734	Raffaele Ivandro.....	Douglas avenue	
10,735	Benjamin Buffum.....	Gano and Medway streets..	
10,737	Ruth B. Storer.....	Knight street.....	
10,738	Michael H. Maguire.....	Bishop street.....	
10,742	Gorham Manf'g. Co.....	Adelaide ave. and Holbrook street.	
10,744	John C. Luther.....	Payton street.....	Approximate.
10,745	Mrs. Mary C. Scheuren..	Youlden street.....	Approximate.
10,747	Noah H. Pernell.....	Fenner avenue	
10,748	George S. Rawlings and wife.....	Frederick street.....	
10,749	P. T. Banigan.....	Dean and Carpenter streets.....	
10,750	" " "	Dean street.....	
10,752	John A. Murray.....	Calla street.....	Approximate.
10,753	Edward B. Arnold.....	Congress avenue.....	
10,754	John M. Brennan.....	Oriole and Grand avenues.....	
10,755	Mrs. Emma L. Pierce....	Public street.....	
10,757	T. H. Carpenter.....	Clemence and Weybosset streets..	
10,758	Elmore A. Whitney.....	Waldo and Sorrento streets.....	
10,760	James A. Potter.	Central street...	
10,763	John R. Meehan.....	West Park street...	
10,764	Frank E. Corbett & wife.	Vermont avenue.....	
10,766	Robert Pettis.....	Orms and Washburn streets.....	
10,770	Daniel Leddy.....	Evergreen street.....	
10,771	Nancy W. Bowen.....	Orms and Shawmut streets.....	
10,772	A. Z. Horton	Eddy street.....	
10,773	A. M. Paine.....	Rugby and Cass streets.....	Approximate.
10,774	Clarence B. and Eugene B. Lester.....	Sycamore and Willow streets.....	
10,775	Walter D. Howard.....	Vermont avenue.....	
10,777	Arnold Real Estate Co...	Washington and Mathewson sts...	
10,778	J. Herbert Annable.. ...	Hope and Keene streets.....	
10,779	H. B. and Clara C. I. Stehr	David street.....	
10,781	Charles A. Phillips and wife.....	Osborn street.....	
10,783	C. E. Wescott.....	Alger avenue....	
10,786	Catherine Slavin.....	Murphy and Cedar streets.....	
10,788	Andrew Carroll.....	Rill and Jillson streets.....	
10,889	James J. Newman.....	Plenty street.....	
10,790	Henry Stehr.....	David street.....	
10,791	Anna F. Jackson.....	Indiana avenue.....	
10,792	John Melarky.....	Charles street.....	
10,793	Augusta C. Norden.....	Spooner street....	
10,794	Joseph Liddle.....	Valley street.....	
10,795	Margaret Grady..	Tockwotten and Wade streets.....	
10,796	E. M. Harris.	Irving avenue and Blackstone boulevard..	
10,797	Francesco Cardarelli.....	Douglas avenue.....	
10,801	Thomas C. Kickum.....	Waldo street.....	
10,802	Spencer H. Gilmore.....	Olney street.....	
10,804	Alfred G. M. Whipple...	Elmwood ave. and Rutland street..	
10,806	C. J. Redding.....	Public street.....	
10,807	Bernard McGuinness....	Felix street..... ...	
10,810	Jesse Metcalf.....	Page, Richmond and Pine streets..	
10,812	William H. Lonergan....	Blackstone and Staniford streets..	
10,813	Thomas C. Cressey	Charles street.....	
10,816	Mrs. Elsie Fletcher.....	Rutland street.....	
10,817	Salisbury estate.....	Forest street.....	

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Notice Number.	In Name of	Street.	Remarks.
10,820	Charles H. Smith et al...	Westminster and Mathewson sts..	
10,821	William Barlow.....	Broom street.....	
10,822	Vincenzo Bufalo.....	Acorn street.....	
10,823	Mathias McGorty and wife.....	Joslin street.....	
10,824	Jacob Rosenfeld..... ..	Shawmut street.....	
10,825	Barney Kindelan, heirs..	Branch avenue.....	
10,826	Francis Reilly.....	" "	
10,827	Karl Wendt.....	McKinley street.....	
10,828	John J. Kean.....	Charles Field street.....	
10,829	Franklin Cobb.....	Lexington avenue.	
10,830	Joseph W. Greenwood..,	Rhodes street.....	
10,833	Thomas H. Atwood.....	Broad and Moore streets	
10,834	John C. Merz.....	Amy and Gano streets.....	
10,838	Hugh O'Conner.....	Ring street	
10,840	Ann Ryan.....	Preston and Gano streets.....	
10,844	Joseph W. Greenwood...	Eudora street.....	
10,848	Moses C. Pillsbury and wife.	Atlantic avenue.....	
10,849	Charles Cederberg.....	Felix street.....	
10,850	Antonio Cappelli	Spruce street.....	
10,851	Butler Hospital.....	Blackstone boulevard.....	
10,852	Alfred G. M. Whipple...	Bucklin and Rutland streets.....	
10,855	Henry H. Howard.....	New York avenue.....	
10,856	Dr. William Allan.....	Richardson and Rugby streets.....	
10,857	Stephen G. Northup.....	Lancaster street.....	
10,860	Bridget Dolan wife of Patrick.....	Unit street.....	
10,861	J. Herbert Annable.....	Hope street.....	
10,862	Thomas Grimes.....	Chalkstone and River avenues.....	
10,865	William F. Perry.....	Elmwood avenue and Oakland and Public streets.....	
10,866	Nellie E. Freeman.....	North Main and Third streets.....	
10,868	Charles V. Machon.....	Robin street.....	
10,869	Cyrus Le Lachem.....	" "	
10,870	John W. Page.....	McKinley street.....	
10,873	Patrick Walsh.....	Rhodes street.....	
10,874	" "	Eudora street.....	
10,875	Henry Rogers.....	Atwells avenue and Cutler street..	
10,878	Matteo Cappelli	Spruce street	Approximate.
10,880	Thomas Booth.....	Babcock street.....	
10,883	Ella M. Drake.....	Greenfield street.....	
10,884	Domenico Paolini.....	Dale street.....	
10,886	Lloyd C. Eddy.....	Frank street and Beacon avenue..	
10,887	Frank Francis.....	Winthrop avenue and Manomet street.....	
10,889	Charles Bradley.....	Hamburg and Pacific avenues.....	
10,891	Ellen P. Walsh.....	Douglas avenue.....	
10,893	Vincenzi Jackvony	Hassan street..... .....P..	
10,894	J. F. and William J. Keenan.....	Marlborough street.....	
10,895	James C. Goff.....	East Manning street.....	
10,896	Patrick Flemming.....	Dexter and Westfield streets.....	
10,901	Thomas Spencer.....	Broad and Early streets.....	
10,903	Alphonse Deslauries.....	Page street.....	

The following sundry lines have also been defined:

Allen's avenue, Cent street,
Balch street, Pacific avenue,
Winthrop street, approximate.

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RECAPITULATION.

Building notices received during the year		614
Building notices relating to repairs, etc., and not requiring street lines.		201
Lines marked for building notices	409	
Sundry lines given	5	
Total lines defined	414	

As in past years information in regard to street lines has been furnished to the water department as required.

Surveys and maps were made of the following streets during the year:

Streets to be laid out in the usual form.

Name of Street.	Between what Points.	Length in Feet.
Althea	Cranston street and Union avenue	978.39
Baxter	Norwich and Potters avenues	306.01
Beverly	Sabin and Mason streets	224.16
Goddard	Candace street and Douglas avenue	1,212.20
Irving	Broad and Emerson streets	400.87
Norwich avenue	Baxter and Broad streets	619.57
Ontario avenue	Broad and Melrose streets	1,584.79
Regent avenue	Cornell street and easterly termination	385.57
Van Zandt	Jackson and Hamburg avenues	432.79
Wadsworth	Cranston and Sorrento streets	493.27
		6,637.62

or 1.257 miles.

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Streets conveyed by deed for highway purposes and ordered repaired:

Name of Street.	Between what Points.	Length in Feet.
Euclid avenue	Thayer and Brook streets	276.70
Lillian avenue	Broad and Baxter streets	619.26
Maryland avenue	Northerly line of Massachusetts avenue and the city line	552.71
Miller avenue	Broad street and Roger Williams Park	2,047.71
Sims avenue	Kinsley and Harris avenues	732.55
Tingley	Acorn street and Ashley avenue	315.00
		4,543.93

or 0.861 mile.

Streets established as public highways upon petition of owners:

Name of Street.	Between what Points.	Length in Feet.
Cove	West Exchange and Sabin streets	1,306.77

or 0.247 mile.

Streets to be laid out and widened under the Betterment Act:

Name of Street.	Between what Points.	Length in Feet.
Huntington avenue	Chambers and Carter streets	1,493.02

or 0.283 mile.

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Streets or portions of streets declared useless and abandoned for highway purposes:

Name of Street.	Between what Points.	Length in Feet.
Gaspee (old).....	Kinsley avenue and point near railroad crossing..	708.
Blackstone.....	Allen's avenue and harbor line...	1,075.52
		1,783.52

or 0.338 mile.

Streets to be laid out under different forms, either for the purpose of widening or straightening or for more definitely fixing the boundaries thereof:

Name of Street.	Between what Points.	Length in Feet.
Dunwell's gangway.....	Weybosset and Dyer streets.....	237.57
Elmhurst avenue.....	Smith and Eaton streets.....	855.93
		1,093.50

or 0.207 mile.

Total length of street surveys and plats, sixty thousand three hundred and seventy-two and twenty-four one hundredths feet, or eleven and four hundred and thirty-four one thousandths miles.

Streets have been laid out or received during the year under various forms as follows:

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Under the usual form :

Name of Street.	Between what Points.	Length in Feet.
Althea	Cranston street and Union avenue	978.39
Chambers	Potters and Huntington avenues	580.27
Eiswald	Bell and Grove streets	200.00
Frank	Beacon avenue and Plain street	465.19
Goddard	Candace street and Douglas avenue	1,212.20
Grand avenue	Angell and South Angell streets	790.29
Greeley	Charles and Opper streets	670.97
Linwood avenue	Cranston street and Union avenue	1,206.61
McKinley	Elmwood avenue and Roger Williams Park	576.04
Norwich avenue	Baxter and Broad streets	619.57
Regent avenue	Cornell street and easterly termination	385.57
Rhode Island avenue	Butler and Grand avenues	700.57
Van Zandt	Jackson and Hamburg avenues	432.79
Wadsworth	Cranston and Sorrento streets	493.27
Whitney	Elmwood and Alger avenues	450.00
Wood	Ellery street and Huntington avenue	529.72
		10,291.45

or 1.949 miles.

Streets conveyed by deed for highway purposes and ordered repaired :

Name of Street.	Between what Points.	Length in Feet.
Aborn	Present termination and West Exchange street	227.48
Elmgrove avenue	Olney street and southerly line of Irving avenue	3,115.97
Euclid avenue	Thayer and Brook streets	276.70
Grand avenue	Angell street and Oriole avenue	200.00
Irving avenue	Elmgrove avenue and easterly line of Wayland avenue	440.00
Lillian avenue	Broad and Baxter streets	619.26
Maryland avenue	Northerly line of Massachusetts avenue and the city line	552.71
Miller avenue	Broad street and Roger Williams Park	2,047.71
Sims avenue	Kinsley and Harris avenues	732.55
Tingley	Acorn street and Ashley avenue	315.00
		8,527.38

or 1.615 miles.

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Streets established as public highways on petition of owners:

Name of Street.	Between what Points.	Length in Feet.
Cove	West Exchange and Sabin streets	1,306.77

or 0.247 mile.

Streets laid out and widened under the Betterment Act:

Name of Street.	Between what Points.	Length in Feet.
Andem	Academy avenue and Bergen street	1,103.16

or 0.209 mile.

Total length of streets laid out and received in 1895, 21,278.91 feet, or 4.029 miles.

During the year the following streets or portions of streets were declared useless and abandoned for highway purposes:

Name of Street.	Between what Points.	Length in Feet.
Gaspee (old)	Kinsley avenue and point near railroad crossing	708.00
Blackstone	Allen's avenue and harbor line	1,075.52
		1,783.52

or 0.338 mile.

This amount subtracted from the length of streets received during the year, gives as a net increase during 1895, 19,445.24 feet, or 3.683 miles, making for the present length of received streets 204.385 miles.

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Under different forms final action has been taken regarding the lines of the following streets, either for the purpose of widening or straightening or for more definitely fixing the boundaries thereof:

Name of Street.	Between what Points.	Length in Feet.
Dunwells gangway	Weybosset and Dyer streets	237.57
Elmhurst avenue	Smith and Eaton streets	855.93
Point	Hospital and Eddy streets	870.41
Stevens	Charles and Bark streets	305.35

Preliminary work of various kinds relative to layout or improvement of Arlington and Arthur avenues, Canal, Charles, Crawford, Gaspee, Lockwood, Maria, Olney, Tefft and Winter streets has been performed as desired.

By request of the superintendent of street signs and numbers, about two hundred and sixty plans of streets have been furnished for numbering purposes.

The length of streets platted but not yet received is now approximately one hundred and nineteen and thirteen one-hundreths miles.

During the past year the work relating to public buildings was transferred to this department.

By the order of the committee on city property, lines and levels have been furnished for the construction of the following buildings:

Broad street school house (junction of Eddy street).
Courtland street school house (corner of Gesler street).
Eddy street shop for highway department.
Greeley street school house.
Harrison street ward room.
Henderson street shop and store house for public buildings and lamp departments.

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Hendrick street school house.
Potters avenue school house, addition.
Ruggles street school house (corner of Sparrow street).
Union avenue school house (corner of Althea street).
West side high school (corner of Summer and Pond streets).
Wickenden street fire and police station, two additions.

Lines and levels were given for construction of retaining walls for the following estates; with the exception of the first mentioned the plans and estimates were furnished by this department:

Greeley street school.
Hendrick street school.
Jackson avenue school.
Roger Williams avenue school.

Levels were also given for grading:

Broad street fire station lot.
Greeley street school lot.
Hendrick street school lot.
Jackson avenue school lot.
Potters avenue school lot.

Also for concrete pavements:

Broad street fire station.
Harrison street ward room.

Plans for new sanitary fixtures including sewer connections have been furnished and the work supervised:

Academy avenue school.
Beacon avenue school.
Candace street school
Jackson avenue school.
Meeting street school.
Putnam street school.
Smith street school.
Vineyard street school.

The force employed during the year in this department has consisted of Herbert E. Sherman, assistant engineer in charge of street line department; Frank B. Bourne and David B. Fitts, principals. Edward S. McGregor and John F. Conaty assistants. Joseph D. Fitts together with his assistants, have devoted a portion of their time to the work on public buildings.

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CITY PROPERTY.

Surveys and plans were made as follows:

Abbott Fountain lot.
Aldridge farm.
Althea street.
Althea street school estate (3).
Bacon street lot.
Blackstone park.
Broad street school estate (2).
Brook street district.
California avenue school estate.
Cent street lot.
City yard (new) (2).
Cove lands.
Davis park.
Doyle avenue lots.
Dunwell's gangway.
East River street sewer strip.
Field's Point property.
Greeley street school estate (2).
Harbor line, Seekonk river.
Harris avenue lot.
Harrison street station.
Hendrick street school estate.
High school estate (new) east side, (3).
High school estate (new) west side, (10).
High school estate (old).
Jackson avenue school estate.
Knight street station.
North burying ground.
R. I. Bleachery.
Roger Williams park (5).
Ruggles street school estate.
Wickenden street station (2).
Work House lot.

Stone bounds were placed as follows:

Althea street school estate	4
Blackstone park	19
Blackstone street	1
Broad street school estate	4
Broad street station	1
California avenue school estate	4
Greeley street school estate	5
Hendrick street school estate	2
High school estate (new), east side	4
High school estate (new), west side	4
Jackson avenue school estate	4
Roger Williams park	8
Total	60

The following lots were staked out where streets have been graded by the city:

Althea street	2
Huntington avenue	5
Waverly street	1

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Descriptions for deeds, agreements and other instruments were furnished or examined as follows :

Althea street school estate (11).
Arlington avenue (7).
Atwells avenue and Knight street junction.
Bacon street lot.
Blackstone park (2).
Brayton avenue, sewer right.
Broad street school estate (6).
Brook street district.
Brown street strips (2).
Capron street lot.
City yard (new) (2).
Cove lands.
Cove street (4).
Dunwell's gangway (2).
Elmwood avenue widening.
Euclid avenue (3).
Gaspee street (old).
Grand avenue.
Greeley street school estate (3).
Harris avenue lot.
High school (new) east side.
High school (new) west side (2).
Improved sewerage (7).
Lillian avenue (2).
Maryland avenue (2).
Miller avenue (2).
North burial ground (2).
Pawtuxet property.
Planet street grade.
Providence Water Works.
Ridge street lots.
Roger Williams park (9).
Ruggles street.
Tell street lot.
Terminal facilities.
Woodbine street.
York street.

By direction of the city solicitor surveys and plans were made for use in the following court cases :

Billings, Mary C. and Abby A.,	vs.	City.
Knowles, John C. estate,	"	"
McCue, Andrew W.,	"	"
Peirce, Clara F. et al.,	"	"
Santhof, Geo. W. et ux.,	"	"
Slade, George H. estate,	"	"
Stafford, Ann Francis estate,	"	"

At the request of the record commissioners numerous ancient plats have been copied and identified and the lay-outs of old highways located.

At the request of the recorder of deeds several plats have been copied for record.

Considerable work has been done and information furnished in connection with improved terminal facilities.

A list of all real estate owned by the city of Providence, together with a description of the same, were furnished for the city auditor's report.

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Much labor has been expended in the examination of records, etc., in connection with the claims of the city to the lands above Weybosset bridge heretofore flowed by tide water.

Information required by other city departments has been furnished from time to time as required.

The work relating to this department has been in charge of William G. Brennen, assistant engineer, Louis D. Richardson, principal; George F. Lovett, assistant. Walter D. Waterman, assistant, has also devoted a portion of his time to this department.

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PUBLIC PARKS.

The area, in square feet and in acres, for each tract of land now devoted to park purposes in the city is given below, and also the area of the addition to Roger Williams Park and the proposed addition to Blackstone Park:

	Area in Square Feet.	Acres.
Abbott Park, on Broad street, near Chestnut street	7,800	0.179
Abbott Fountain Lot, India street	1,788	0.041
Arnold Square (deeded to, but not accepted by the city)	38,950	0.894
Blackstone Park	204,560	4.696
Blackstone Boulevard Parkway	829,828	19.050
Columbus Park	11,082	0.254
Davis Park	1,481,941	34.021
Dexter Training Ground (controlled by commissioners)	395,410	9.077
Fenner Park	2,946	0.067
Franklin Square, at corner of Atwell's avenue and Bradford street	22,914	0.526
Hayward Park	116,349	2.671
Hopkins Park	48,590	1.115
Prospect Terrace	12,033	0.276
Roger Williams Square	40,000	0.918
Roger Williams Park	4,554,705	104.562
Tockwotton Park	155,765	3.576
Triangle at junction of Charles and Back streets	2,350	0.054
Triangle at junction of Hospital and Eddy streets	1,120	0.026
Triangle at junction of Bassett, Elm and Hoppin streets	1,370	0.031
Triangle at corner of Stampers and Hewes streets	353	0.008
Washington Square	39,062	0.896
Total	7,967,906	182.918
Blackstone Park proposed addition. Assumed area	1,300,000	29.844
Roger Williams Park additions. Assumed area	13,136,722	301.578
Total with additions	22,404,628	514.340

ROGER WILLIAMS PARK.

The topographical work at this park has been completed and maps showing contours for each two feet of elevation have been made.

The work on the boulevard, on the easterly side of Cunliff's pond, from the drive leading from the Broad street

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entrance westerly to near Park avenue, has practically been completed, requiring the excavation of about sixty-five thousand cubic yards of earth. This boulevard has been covered with a layer of gravel eight inches in thickness, placed upon it in two layers of equal thickness, which has been rolled and compacted after each layer was applied.

Ten catch basins have been built to receive the surface water and connected with the lakes by drain pipes.

The work of removing mud from Cunliff's pond to secure a suitable depth of water for boating has been completed, requiring the excavation of about one hundred and sixty thousand cubic yards of mud. This material has been spread over quite an area on the easterly side of the pond, in a layer from six to eight inches in thickness, and deposited in piles to provide a top dressing and fertilizer for mixing with the sandy soil of the park. The removal of this material will provide a depth of water of from four to six feet over a large part of the new lakes, while on the area extending from Elmville northerly, and where no mud has been excavated, the depth of water will be from six to ten feet. The total area from which the mud has been excavated is about eighty acres.

The shore line of the new lakes has been sloped and put in shape for the border of cobble paving, which is designed to afford protection against the action of the waves.

The length of shore line thus improved is over five miles.

A plan for the location of the new boat house and wharf has been prepared, the building staked out, and levels marked.

Plans for the overflow and draw-off outlet at the southerly end of the new lakes have been made and the work staked out and levels marked for its construction.

Near the Museum of Fine Arts, about four acres have been graded, covered with loam and muck, and seeded. The

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walks have been staked, borders of turf have been laid, and the surface of the walks brought to a subgrade ready for concreting on two thousand, two hundred and thirty lineal feet of walks.

Plans for laying out and grading at the Park avenue entrance have been made and the work of grading is now in progress. Monthly estimates of all the work performed have been made, lines and levels given as required, and a large amount of work, not strictly of an engineering nature, as the making of pay-rolls for the work at Davis Park, the inspection and supervision of all the new work at the various parks, has been required of the department.

DAVIS PARK.

At this park work was begun about the middle of April and continued until the 12th of October following, when all operations were suspended, on account of the appropriation for this work being exhausted. An average number of twenty-six men and six single teams has been employed in grading, ploughing and seeding. The area thus treated embraces all the open ground near Chalkstone avenue entrance, the grounds west of the Mansion House and the Plateau. Borders of turf have been laid and the surface brought to a subgrade, ready for concreting on four thousand five hundred and twenty-five lineal feet of walks. A large amount of work has been performed on the hillside between Brookside avenue, Laurel path, and Cold Spring path, in grading and turfing.

The garden wall east of Dell avenue has been largely rebuilt and put in first-class condition.

All the plans and profiles required were made, the lines and grades marked, and during the progress of the work a general superintendence of the work was kept.

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DEXTER TRAINING FIELD.

At the Dexter Training Field the lines and levels have been given for grading and monthly estimates of the work performed have been made. In grading these grounds, two thousand two hundred cubic yards of loam were used, and also one hundred and thirteen cords of stable manure and street sweepings for fertilizing.

Of the total area of nine and seventy-seven thousandths acres, seven and five-tenths acres have been ploughed, raked, and seeded, the work being performed by contract.

FENNER PARK.

The lines and grades for improving this park were given as required. The surface has been covered with a dressing of loam and turf. Water and sewer connections have been made and the adjoining sidewalks have been concreted.

COLUMBUS PARK.

At Columbus Park the grades have been marked for concreting the adjoining sidewalks.

BLACKSTONE BOULEVARD PARKWAY.

Plans and estimates for improving this parkway have been prepared for the Park Commissioners.

DEXTER ASYLUM.

Lines and grades have been marked in front and east of the institution building for rebuilding and macadamizing the driveways. Stakes have been placed for the location of the new greenhouse and the posts set and levels marked for its construction.

NORTH BURIAL GROUND.

The lots in the glen group and a part of group twenty-seven have been staked out. Surveys and plans for the

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location and erection of a new tomb have been made. Considerable progress during the winter has been made on the sectional maps, in locating the lots in the older parts of the grounds and in surveys and platting into lots of the newer sections.

The work relating to parks, etc., has been in charge of Joseph D. Fitts, assistant engineer; Clarence M. Winsor, Charles F. Janes, Mortimer B. A. Hooper, John H. Ahern, and S. Frank Nolan, principals; Charles P. Mowry, Stephen L. Davis, and William H. McSoley, assistants. Henry N. Francis, F. Harold Shaw, William G. Holden, and Charles E. Thurber, principals; Robert F. Rodman, John E. Gillies, John B. Carr, William R. Fessenden, H. Loring Huggins, Edward B. Schofield, Charles M. Cunliff, Arthur H. Fitts, Oscar F. Bellows, and Lester F. Allen, assistants, have devoted a portion of their time to this department.

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BRIDGES.

The very large amount of bridge work in progress during the year has called for a large amount of work from this department in the preparation of plans, specifications, estimates and engineering supervision.

The new Red bridge was opened for travel December 23d. With the exception of the guard gates, painting, and some minor details, the structure is now completed.

The first iron bridge at this location was completed and opened for travel in 1872. At that time the travel over the Central bridge was very light, consisting principally of farm produce in wagons, and it is probable that for several years few loads exceeded three tons, but when it was closed to excessive loads, in October, 1893, the teams of the Standard Oil Company and the East Providence quarries hauled loads weighing ten tons, or more than three times the weight of the loads first put on the bridge.

Like most of the iron bridges built twenty-three years ago, it was very light and of faulty design. Nearly all of the connections were inaccessible for examination and painting. When the bridge was torn down it was found that all the concealed parts were rusted badly, the amount of loss in some cases being as high as twenty per cent. The bridge was in use much longer than many of the earlier iron bridges in. this country. Its removal was commenced February 22, 1895.

The new bridge is in practically the same location as the old one, and is forty-eight feet wide.

The masonry consists of two abutments, two draw rest piers and a circular central pier, on which the draw revolves. The portions of the old abutments retained in use were strengthened by a backing of concrete. The new portions

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are of rubble laid in cement and supported on pile and timber foundations. The draw rest piers are of coursed ashlar masonry supported on pile and timber foundations, and with granite coping upon which rest three granite pedestals to furnish support for the ends of the draw. The central or draw pier consists of a heavy ring of coursed ashlar masonry supported on piles, the heads of which are surrounded with Portland cement concrete two feet thick. The interior of the pier consists partly of the old pier masonry, thoroughly grouted with Portland cement, partly of Portland cement concrete, and partly of new rubble masonry laid in Portland cement. The diameter of this pier at the top is thirty-seven and one-half feet. The outside ring of masonry is capped with heavy granite to which is securely anchored the cast iron track upon which the draw turns.

The width of the driveway between wheel guards is thirty feet, and the two sidewalks are each six feet wide in the clear. There are three spans, the two fixed, or shore spans being each eighty-eight feet and three inches over all and the draw span two hundred and ten feet. Each fixed span consists of four single latticed trusses with riveted connections. The sidewalks are supported by brackets attached to the outside trusses. The driveway floor is of steel and consists of steel shapes riveted together, and supported on fifteen-inch I beams, resting upon the top chords of the trusses. The trough shaped sections are leveled up with hydraulic concrete, and covered with two inches of asphalt wearing surface. The sidewalk floor is of two-inch yellow pine, supported on steel beams. The trusses, which weigh about eighteen tons each, were riveted together complete at the shops and transported to the bridge site in pairs, each pair requiring three flat cars. No false works were used in erecting the two fixed spans. Each truss was taken from the cars, and placed on two large scows and floated at high tide into position exactly over the proposed location of the truss on the abutment and pier, and as the tide fell the truss was lowered into its proper position. The railing is of orna-

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mental design, and there is a guard rail separating the driveway from the sidewalks.

The draw span consists of two pin connected trusses placed between the driveway and sidewalks. Extending from truss to truss at each of the panel points are heavy plate girders, and between these girders and riveted to them are five lines of longitudinal stringers, upon which rest the seven-inch I beams, carrying the four-inch yellow pine plank floor. Upon this plank there is placed two-inch spruce wearing plank, which it is expected will, when worn out, be replaced with two inches of asphalt for a wearing surface. The sidewalks are supported on brackets attached to the trusses, and are similar to those in the fixed spans. The weight of the draw span is carried to the turn table by heavy transverse and longitudinal plate girders. The turn-table, a heavy circular plate girder, forty-eight inches deep, rests upon forty-eight cast iron wheels, each twenty-two inches in diameter and nine inches wide on the rim. The track upon which these wheels run is of rolled steel supported on a cast iron bed securely fastened to the pier masonry with heavy anchor bolts. Securely bolted to the cast iron bed is the large circular stationary segment gear into which mesh the pinion gears for turning the draw.

The circular girder or drum is held in position by eight radial arms or struts which revolve with the drum, and around a central pivot, consisting of a heavy casting securely anchored to the pier masonry. Each of the forty-eight wheels is connected with this central casting by a rod which serves to keep the wheels in their proper position on the track.

The operating machinery is placed in a motor house located overhead at the centre of the draw above the driveway, thus leaving the driveway and sidewalks unobstructed for public travel.

Two, twenty horse-power Westinghouse electric motors are used for operating the draw. It is expected that one of

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these motors will have sufficient power to operate the draw under ordinary conditions, the other being used only in windy weather or in case one is disabled from any cause. There are two Mason friction clutches, one of which connects the motor gearing with the main shaft for turning the draw, and the other furnishes the connection with the end lift for locking the draw. Upon the main horizontal shaft is placed an equalizer, a device consisting of gears so arranged that the power shall be equally divided between the two pinion gears which mesh into the large stationary segment gear fastened to the pier masonry. These pinion gears are keyed to the lower ends of the vertical shafts, which are connected with the main horizontal shaft by bevel gears. The use of two pinion gears, instead of one, as at the other draw bridges, enables the power to be applied at the same time on the opposite sides of the draw, and at two points of the segment gear, thus lessening the liability of breaking the teeth of the segment gears, and in case of breakage of either pinion the other can be used alone until repairs are made. The equalizer causes each pinion to exert its share of the power applied, through possibly varying requirements from changes of temperature, unevenness of construction or otherwise.

The end lift is used for bringing the ends of the draw to a solid bearing, and also for securely locking the same. It is operated from the motor house by means of a shaft extending from the centre to both ends of the draw, where it connects by bevel gearing with heavy steel screws, which, through a toggle joint connection, force the bearing shoes at the four corners of the draw into such a position as to give a firm support for the ends of the draw. This is important in order to allow trotting over the draw without excessive vibration, which would occur if the ends were not firmly supported.

Guard gates similar to those in use at Point street bridge have been contracted for, and will protect the approach to

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the draw when it is turned off for the passage of vessels. The gates will be latched without the use of a post in the centre of the driveway, as at Point street bridge, thus avoiding all obstruction to travel when the gates are open. The gates will have iron frames, and be very substantial, and probably be sufficient to stop a runaway team, but would not offer much of a barrier against a runaway electric car.

Two electric car tracks are laid the whole length of the bridge, one on each side of the driveway near to the wheel guard.

The total weight of metal in the bridge not including the operating machinery is about one million four hundred thousand pounds, or seven hundred tons.

The grade of the new bridge is about two and one-half feet higher than that of the old one, which gives better approaches to the bridge, and also permits the placing of the trusses of the fixed spans beneath the floor, and thus avoids the obstruction caused by trusses extending above the floor.

The bridge has been designed for a working load of one hundred pounds per square foot, in addition to the dead load of the bridge superstructure, and for a concentrated load of a twenty ton steam road roller in any position on the driveway, or for two electric cars in any position on the tracks.

It is believed that the new bridge has been constructed in the most substantial manner, the metal work being of steel throughout except certain ornamental parts, and bearing plates, which are of cast iron. The structure has been designed in accordance with the best practice of modern bridge construction, especial care having been taken to secure the same strength in the connections as in the principal parts. All parts of the metal work are so constructed as to be accessible for examination and painting.

Sample bars were taken from each lot of steel as rolled, and subjected to rigid tests under the direction of an inspector appointed by the city. The workmanship also

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was inspected during the progress of the work at the bridge shop.

The bridge has been built in accordance with designs made by, and the work of construction done under the supervision of the city engineer's department.

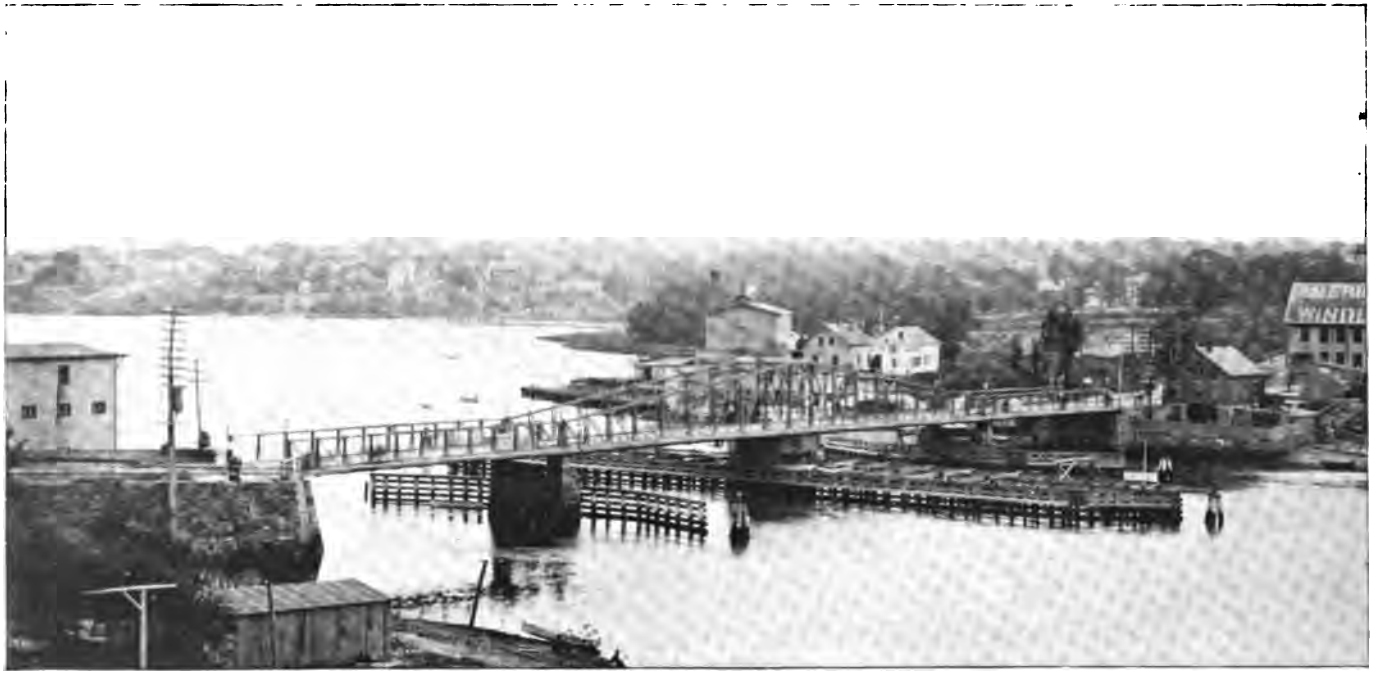
An accompanying illustration shows the former bridge taken from a point in East Providence and looking westerly. Another illustration shows the new structure from a point also in East Providence and looking northerly.

In fulfillment of the agreement made between the city and the abutting owners, a new steel bridge has been built at the location of the Washington Row bridge, in accordance with designs made by and the work of construction done under the supervision of the city engineer's department.

The substructure consists of two lines of supports, one a stone pier in extension of, and in line with, the westerly pier of the Burnside bridge, the other a line of fifteen Cushing piers placed about ten feet from the face of the old wall on which the Washington buildings stand. The stone pier is of cut granite supported on pile foundations similar to the piers of the Burnside bridge.

The Cushing piers consist of four ten-inch square hard pine timbers, securely bolted together and forming one pile twenty inches square and thoroughly driven into hard bottom. After driving, each pile was encased in a thirty-inch cast-iron water pipe, two sections in length, and the space between the pile and the cast-iron pipe surrounding it was filled in solidly with Portland cement concrete. The upper end of the pipe is closed with a heavy cast-iron cover resting on the concrete and on the cast-iron pipe which serves as a bearing upon which the heavy cross girders rest. The main supporting power of the pier is obtained principally from the wooden pile driven into hard bottom, while the casing of cast-iron protects the wooden pile from decay or injury from other causes. In placing both the stone and Cushing piers the work was so conducted as not to damage

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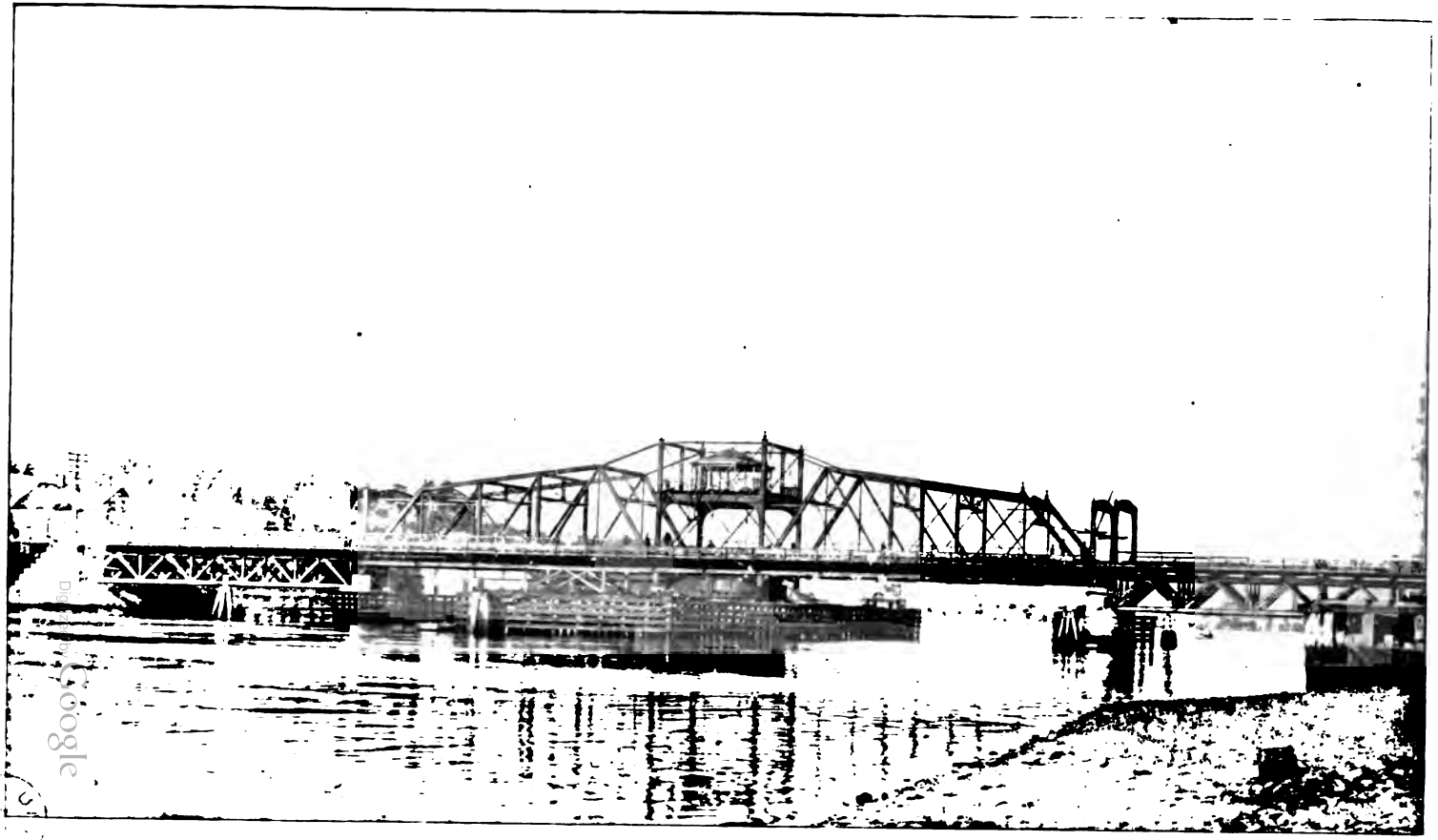


The Old Red Bridge.

R. I. PHOTO. ENG. CO. PROV.

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The New Red Bridge.

R. I. PHOTO. ENG. CO. PROV.

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or disturb in any way the old wall along the face of and supporting the heavy buildings. In order to do this, a steam hammer was used in driving the piles for the Cushing piers, thus producing less jar and disturbance to the surrounding earth than would be the case with the ordinary drop hammer.

The superstructure is of steel throughout with asphalt pavement, there being no wood used in any part of it. There are fifteen heavy plate girders, each resting near one end, on the stone pier, and near the other on a Cushing pier, the portions of each girder projecting over the piers furnishing support for the sidewalks on each side of the bridge, while the part of the girder between the piers supports the driveway.

These cross girders are placed about thirteen feet apart, and spanning the spaces between them are four lines of stringers extending the entire length of the bridge, and upon which rests the steel floor of the driveway. The sidewalk floor is also of steel and raised six inches above the driveway. The troughs or corrugations in the floor, both on the driveway and sidewalks, were leveled up to the proper height with Portland cement concrete and then covered with a wearing surface of asphalt. The total length of the bridge is about one hundred and ninety-five feet, with a driveway of twenty-six and one-half feet, and two sidewalks, the easterly one being eight feet wide and the one adjoining the buildings being ten and one-half feet, giving a total width of street of forty-five feet.

The bridge has been designed for a working load of one hundred pounds per square foot in addition to the dead load of the bridge superstructure, and for a concentrated load of a twenty ton steam road roller in any position on the driveway.

The steel in the superstructure was carefully inspected both as to quality and workmanship, and it is believed that

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this bridge has been constructed in a very substantial manner and that the cost of maintenance will be small.

Plans, specifications, and estimates have been prepared, and the work of construction, so far as completed, supervised, for a new steel bridge over the Moshassuck river in line of the extension of Promenade street. The new channel walls, built several years ago, form the abutments for this bridge. A pier has been placed in the channel in order to keep the grade of the bridge floor as low as possible, and consists of cut granite supported on pile and timber foundation. Work on the steel superstructure is now in progress at the bridge shops.

The necessary plans, specifications and estimates have been prepared for a new steel structure to replace the old Exchange bridge. Work on the abutments and piers is now in progress.

Estimates have been made for widening the two bridges over the tracks of the New York, New Haven and Hartford Railroad in line of Elmwood avenue, and also for a new bridge over the railroad tracks in line of Tefft street.

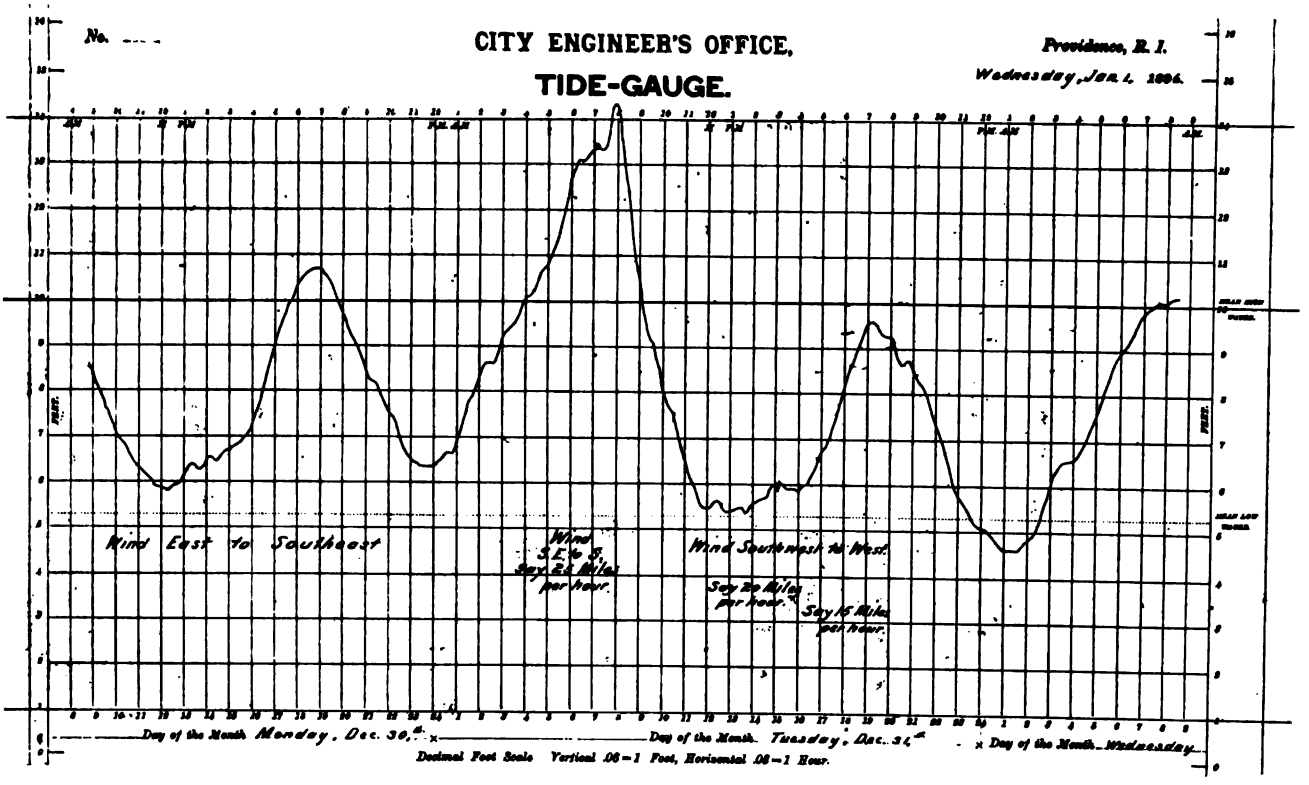
The plans submitted for the iron roof of the sewerage pumping station have been examined and reported upon with proposed modifications.

Plans have been prepared for a new ceiling and partition at the Pettaconset pumping station.

In addition to the above mentioned work a large amount of miscellaneous work has been done, including the preparation of plans and estimates, inspection of material and supervision of repairs made upon the various bridges during the year.

A careful examination of all the public bridges has been made during the year.

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HARBOR.

During the past year material has been dredged as follows:

Locations.	Amount cubic yards.	Price per cubic yard.	Value.
Dorrance street dock and basin	1,998	16½c.	$329 85
Face of Pomeroy Coal Co.'s wharf	878	16½c.	144 87
" " R. E. Smith & Co.'s wharf	1,450	16½c.	239 25
" " R. B. Little & Co.'s wharf	820	16½c.	135 30
" " Jos. Olney & Sons' wharf	820	16½c.	135 30
" " W. P. Hale's elevator	315	16½c.	51 97
Opposite Elm street sewer	457	16½c.	75 41
Flats below channel to new City wharf	23,389	16½c.	3,859 18
Shoal opposite Hill's wharf	10,957	16½c.	1,807 91
Deepening main channel from Crawford street bridge to Government channel	108,763	16½c.	17,946 89
	149,242		$24,624 93

In connection with the above dredging various soundings have been taken, range stakes and tide gauges set, and monthly estimates prepared upon which payments to the contractors have been made.

The self-registering tide gauge has been in continuous operation during the year, and has received the necessary attention. The accompanying diagram is a copy of the sheet taken from the instrument on the date named and reduced to about one-third the size of the original. It shows in a very marked degree the effect of the force and direction of the wind on the tides in the Providence river.

The employés in this department during the year have been: William D. Bullock, assistant engineer, in charge of

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department of bridges and harbor; Elmer W. Ross, Hermon R. Bliss, and Edmund J. Steere, principals; Harry E. B. Bailey and Harry L. Avery, assistants. Benjamin A. Wakefield, principal; Frank Allen, mechanical engineer; John Metcalfe, and George S. Armstrong, draughtsmen; and Walter V. Lawton, John B. Carr, and Joseph R. Bullock, Jr., assistants, have devoted a portion of their time to this department.

There are in the office 12,751 indexed plans, 239 of which have been classified and indexed during the past year.

The average number employed during the past year was 70.

J. HERBERT SHEDD,

City Engineer.

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REPORT

OF THE

JOINT SPECIAL COMMITTEE

ON THE

PURCHASE OF LAND

ADJOINING

ROGER WILLIAMS PARK.

[Presented January 20, 1896.]



REMINGTON PRINTING CO., CITY PRINTERS,
63 Washington Street,
1896.

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REPORT.

TO THE HONORABLE CITY COUNCIL OF THE CITY OF PROVIDENCE:

The Joint Special Committee appointed by Resolution No. 505, series of 1891, approved August 7th, 1891, relative to the purchase of land adjoining Roger Williams Park, beg leave to submit the following report in compliance with Common Council Resolution passed January 6th, 1896.

The Committee made its last report February 19th, 1894. At that time the approximate area of land not settled for was 3,880,-254 square feet, the ice and water rights belonging to Benjamin F. Smith, trustee, and the flowage rights belonging to Daniel Perrin and others, were also unsettled for. The various owners and areas are set forth in appendix "B" to said report of February 19th, 1894. Of these the following settlements have been made:

Mary Miller, tract, 68,987 square feet, settled for 12 cents per foot, or $8,278.44.

Beriah Wall, tract, 50,255 square feet, settled for $9,000.00.

Jackson Institution for Savings, 48 square feet, settled for $4.75

Isaac M. Potter, Marion avenue, 27,101 square feet, settled for $2,000.

Mowry Williams, 3.685 square feet, for which agreement of settlement had been made for $200.00, title could only be made to $\frac{8}{96}$. Settlement was accordingly made for $183.33. The most persistent effort has been unable to find the other $\frac{8}{96}$, and the amount involved is so small that it would not be worth anyone's while to take the elaborate proceedings necessary to re-open the proceedings in their behalf:

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Willard B. Tanner, receiver, 2,150 square feet, settled for $100;

Emanuel Eastwood, 1,674 square feet, settled for $36.06;

George W. Lamphear, Norwood avenue, 16,007 square feet, settled for $2,561.12;

John M. Booth, Norwood avenue, 16,007 square feet, settled by exchange of lot for adjoining one, and payment of $1,000 to cover damages and cost of removal of buildings;

Christopher A. Pierce and others, verdict was recovered July 3, 1895, for $10,071.50. This includes $1,234.39 interest from date of condemnation to date of verdict. This was settled July 17th, by the payment of the verdict, and $75.80 costs, and $23.50 interest from date of verdict to date of settlement;

Benjamin F. Smith, trustee, 2,769,342 square feet, including buildings valued at $10,000, on neck lot, ice houses valued at $20,000, ice and water privileges value agreed upon as $35,000; verdict was recovered September 29, 1894, for $160,998.95. This included $17,588.14, interest from date of condemnation to dates of settlement. Of the above, mortgages amounting to $70,657.74 had been paid at the time of the last report of this Committee; $30,000 was paid October 19, 1894, and the balance, together with $139.05, costs, and $2,076.49, interest from date of verdict, was settled April 24, 1895;

William H. Turner, 265,572 square feet, verdict in this case was recovered October 16, 1895, for $35,306.85. This includes $6,602.05 interest from date of condemnation to date of verdict. This was settled November 14, 1895, by payment of verdict, together with $79.10, costs, and $112.05, interest from date of verdict to date of payment;

Freeborn Johnson tract, 372,438 square feet. Of this a half interest was acquired through purchase from Carrie M. Johnson, for $3,500, contained in the previous report. Verdict for the other half interest was recovered September 29th, 1894, in accordance with agreement with this Committee, for $4,275.75. This includes $611.87 interest, and was settled April 2nd, 1895, by the payment of verdict, together with interest to date of payment, $203.71.

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The flowage and water rights belonging to Daniel Perrin and others ("Elmville Syndicate"), including flowage on thirty-two acres of land condemned, purchased and acquired from other parties, including the right to flow about six acres in the old park; also all water rights in about 60 acres acquired from the same parties by prior purchase, the fee and rights of flowage in 2½ acres the south half of No-Bottom Pond, such prescriptive rights as the owners of the Elmville property had in the northern half of said pond and adjoining territory, flowage and reservoir rights in 109 acres in Mashapaug and Spectacle Ponds, including the right to raise the pond to the height enjoyed by the previous owners, and to draw off and use the waters for the benefit of the property below, previously acquired, and for many years enjoyed by the owners of the Elmville Mill Estate to which these rights had been made appurtenent; also the lot containing 34,097 square feet at the mouth of Mashapaug Pond with the dam and gate, and rights in the stream. The value of all of this property condemned, and the damages to the rest by condemning, were fixed by this Committee at $39,300, the owners agreeing in case of this value being fixed that the entire fee in this property, in addition to the parts condemned should be conveyed to the city, which has been done by deeds now on record dated January 3, 1896; interest was reckoned from date of condemnation in accordance with the rulings of the court in other cases.

This leaves, of the original condemnation, unsettled for two adjoining parcels given on the city's plats as belonging to Janet Murray and William McMahon, the title to which, however, is the same, and which have an aggregate area of 96,256 square feet. The title of this tract is in dispute, the record title before condemnation standing in the name of Janet Morgan (nee Murray), in favor of whom, however, no claim was made within the time limit fixed by the statute authorizing the condemnation. Proceedings, however, have been commenced in the Supreme Court with a view of allowing this claim to be set up in spite of the expiration of the time limit, in consideration of the non-residence and minority of the claimant.

This petition has been denied by the Common Pleas Division, and is now pending before the Apellate Division. The title of the claimant is based on a mortgage purporting to have been

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made by the J. W. Babcock Land Company, the validity of which is denied by Willard B. Tanner, Receiver of the Company's property, who has also made claim as owner of the property. In consequence of these conflicting claims as to the title, it has not been possible to arrive at any settlement as to this tract, although the Committee do not think it would be difficult to deal with either of the owners, provided the title was established so that the city could be certain of not having to pay for the land twice over.

No account is above taken of the interest, valued at $16.67, belonging to the unknown heirs of Mowry Williams, for reasons stated above.

The exchange of land fronting on Broad street for back land along the line of the railroad, recommended in the original report of the Committee, has not yet been effected in consequence of various changes of ownership and management of the railroad property, and because the exchange of a larger area has been under consideration.

With regard to the five lots of land condemned by the city for the purpose of permitting the straightening of the boulevard lines, the Committee has been able to arrive at no agreement with the owners, and the cases are now pending in court. The fixing of the value of either of the lots by a jury would probably result in a settlement for the balance.

The amount of land acquired for the addition to the Park has been 13,470,210 square feet, for which the entire amount paid by the city has been $605,907.25, or an average cost of 4½ cents per square foot. In the amount paid, however, is reckoned $37,989, interest paid in consequence of delay in settling with the owners. Deducting this, which is offset by the city's delay in payment, the average cost of the property is $4\frac{2}{10}$ cents per square foot, the value of buildings taken were estimated at $36,014 (this does not include five tenement houses and the brick store house on the Elmville estate for which nothing was paid, the agreement for the land disregarding the value of buildings); deducting this from the aforegoing the amount paid for land is $3\frac{9}{10}$ cents per square foot. This price includes the ice and water rights enjoyed by the Johnson estate and also the flowage rights, on

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about 90 acres of land within the condemned land, and some seven acres of No-Bottom Pond, six acres in the old Park, and 109 acres at Mashapaug and Spectacle Ponds, which provide the city with water facilities which would have cost many times the $74,300 allowed for the combined water and ice privileges belonging to these two estates.

While looking at the matter in one light, the amount paid for these water and ice rights is a part of the cost of the land, yet, in a more strict sense, it should be excluded in determining the price paid for the land. Excluding the cost of these rights, the land cost $3\frac{4}{10}$ cents per square foot.

For the details of figures the Committee is indebted to the offices of the City Engineer and the City Auditor.

Respectfully submitted for the Committee,

WALTER H. BARNEY,

Chairman.

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ANNUAL REPORT

OF THE

Superintendent of Lights,

For the Year 1895.

[Presented January 30, 1896.]



REMINGTON PRINTING CO., CITY PRINTERS,
63 Washington Street.
1896.

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REPORT.

To the Honorable the Mayor and Board of Aldermen of the City of Providence:

Gentlemen: The superintendent of lights herewith presents his annual report for the year ending December 31, 1895:

The work and general character of the service of this department varies but little from year to year, consisting. as it does, in maintaining properly lighted thoroughfares of the city, so far as the means provided by general appropriations will permit.

In this connection he feels obliged to say that the shade trees which border many of our principal streets (which no doubt are highly appreciated by the residents thereon) are a great hinderance to the diffusion of light from the electrics, casting shadows oftentimes where light is most needed, making it quite difficult for pedestrians to pass safely on their way, and causing frequent demands for small lamps to be set up to remedy this want of light.

Hundreds of these trees are allowed year after year to grow small branches below the main branches, without being removed; as these small branches add nothing to their beauty or usefulness, it would seem that a judicious trimming could be done without the least injury to their symmetry, save considerable expense to the city, and improve the lighting service of the department.

It is therefore hoped that some regular system of tree-trimming will in the near future be established; as also the removal of all trees that are well advanced in decay, broken and disfigured by the elements, of which there are many left standing, that are neither useful nor ornamental—only obstructions to sidewalk travel.

During the year, in accordance with resolution No. 107 of the City Council, approved March 8, 1895, directing the joint standing committee on lamps to contract with the Narragansett

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Electric Lighting Company for furnishing five hundred (500) electric arc lamps for the use of the City of Providence, in addition to the thirteen hundred (1300) heretofore provided by the existing contract; provided that said company shall agree to reduce the price for the whole of said eighteen hundred (1800) lamps to a price not exceeding thirty-five cents per night for each lamp, said price to continue from the time of the execution of the said new contract.

Acting under the above resolution, the committee without delay secured an agreement with said company in accordance with said resolution, and a contract was duly executed March 14, 1895.

And of the five hundred (500) additional lamps, four hundred and sixty-six (466) were established during the year, making a total of electric arc street lights seventeen hundred and eighty-five (1785) in service at this date, together with eight incandescent lamps under Gaspee street bridge.

GASOLINE STREET LAMPS.

These lamps continue to be furnished by the Globe Gas Light Company of Boston, Mass., who supply all the necessary tools, burners and naphtha required, and partially control the lighting of the same; the price paid for this service during the first nine months of the year was six cents per light for each night, costing the city, at the aforesaid rates, twenty-one dollars and ninety cents per year each lamp. At this time the price was advanced one cent per light each night, at which rate the cost to the city was twenty-five dollars and fifty-five cents per year each lamp an addition to the former price three dollars and sixty-five cents per lamp each year. From information derived from other cities using this kind of light, the highest price paid is twenty-two dollars per year per lamp. This coming to the attention of the committee, a movement is started to consider the feasibility of the city owning the lantern fixtures and taking full control of this service, believing that the city will get the benefit of the excess paid to the Globe Company.

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PUBLIC STREET LAMPS.

The number and kind of public street lights in service on the 31st day of December, 1894, were as follows:

Electric	1,319
Gas	1,114
Gasoline	948
Naphtha	713
Total	4,114

GAS LIGHTS.

The gas, as formerly, is furnished by the Providence Gas Company. The average quality, as given by their photometer. compares favorably with that of former years. The amount of gas consumed for street lighting during the year was twenty million four hundred and eighteen thousand six hundred cubic feet (20,418,600), costing at the rate of one dollar and fifteen cents ($1.15) per one thousand cubic feet, amounting to twenty-three thousand four hundred eighty-one dollars and thirty-nine cents ($23,481.39); and gas for bridges three hundred one dollars and fifty-three cents ($301.53). There have been added during the year thirty gas lights, and five hundred and four (504) have been discontinued on account of electric lights, leaving the whole number of gas lights in service at this date six hundred and fifty-three (653).

NAPHTHA LAMPS.

During the year there have been set up and lighted twenty-seven naphtha lights and two hundred and ninety-eight discontinued on account of electric.

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The fluid for burning in naphtha lamps is furnished by the Standard Oil Company of New York City, they having an office in this city. During the year this department has received from said company four hundred and sixty barrels, the contents of which were twenty-three thousand four hundred and seventy-one gallons, costing at the rate of six and three-quarter cents per gallon, amounting to fifteen hundred and twenty-two dollars and twenty-three cents ($1,522.23).

BROKEN LANTERNS

continue to be alarmingly excessive and no remedy as yet appears to abate such useless destruction of property. There have been broken and repaired during the year two thousand four hundred and forty, at an expense to the city of over two thousand five hundred dollars.

I would therefore recommend frequent offers of reward for the apprehension and punishment of guilty parties, which may in some measure restrain the mischievous if not the malicious.

EMPLOYEES.

The number of men regularly employed in this department are three at the department yard and thirty-five lamp-lighters, a total of thirty-eight men, although at times temporary service may be required.

The duties of the men employed at the yard, besides caring for the horses, wagons and harnesses, are to attend to the repairs of defective lamps, lanterns and fixtures; paint and prepare gas posts for setting; paint, set and prepare all fluid posts for lighting ordered by your honorable body; bring in and replace all broken lanterns with whole ones; deliver oil to the naphtha lighters, and such other service as the department may require.

A partial enumeration of the above-named services in detail are as follows:

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Broken lanterns brought in, repaired and replaced, twenty-four hundred and forty (2,440).

Broken gas posts, accidental, by runaway teams and other casualties, fifteen (15).

Unused gas posts removed for the furtherance of city improvements, eighty-seven (87).

Fluid lamp posts, by reason of decay, removed, ninety (90).

New gas posts prepared and delivered for setting, thirty (30).

New fluid lamp posts prepared and set, twenty-seven (27), and oil delivered to the lamp-lighters.

The lamp-lighters are required to light and extinguish the lamps under their charge promptly at the time designated on the time-table, one hour and twenty minutes being allowed for that purpose; to keep the lanterns clean and in order for lighting at all times; to report at the department yard all defects of lanterns or fixtures at or before 8 o'clock A. M.; also a statement is required on each Monday morning of the work performed on the previous week.

The men who are employed to light and care for the gasoline lamps are obliged to use a horse and wagon and devote about all their time to properly care for and light the lamps in their charge, and sometimes to employ assistants at their own expense, and supply themselves with oil for their lamps at the department yard. Their compensation for their services is three cents for each lamp they light each night.

The men who are employed to light and care for the gas and naphtha lamps have some time to spare, and are allowed to have other employment, provided that it shall not in any way interfere with their regular work on the lamps.

This privilege is quite generally adopted by the lighters, and by this grant it is believed that the department is better enabled to procure a more reliable class of men for the work.

All tools and implements required in lighting and care of gas and naphtha lamps are furnished by the city, and their compensation for that service is two and one-half cents for a gas light, and three cents for naphtha lamps, each lamp each thing.

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The men at the department yard and the lamp-lighters continue faithful in the discharge of their several duties and appear to be well satisfied with its emoluments.

Thus we are enabled to say that the department is in good working condition and its apparatus well kept up to a standard of efficiency.

The number and kind of public street lights in service on the 31st day of December, 1895, were as follows:

Electric	1,785
Gas	653
Gasoline	805
Naphtha	588
Incandescent	8
Total	3,839

Showing a decrease over the year 1894 of two hundred and seventy-five lamps of all kinds.

EXPENDITURES.

The expenses of this department for the fiscal year ending September 30, 1885, were two hundred forty-three thousand, two hundred twelve dollars thirteen cents, including one hundred seventy-four thousand, five hundred eighty-eight dollars, fifty-cents for electric lights, twenty-seven thousand, six hundred fifty-six dollars, twenty-seven cents for lamp-lighting, twenty-three thousand, four hundred eighty-one dollars thirty-nine cents for gas. There was an unexpended balance of sixteen thousand, seven hundred eighty-seven dollars eighty-seven cents, which is covered into the city treasury.

The expenses of the department year ending December 31, 1895, were two hundred forty-four thousand, five hundred thirty-four dollars forty cents, and the receipts from the sale of old material three hundred eight dollars forty-two cents.

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An itemized statement will be found following:

ITEMS.	First quarter ending March 31.	Second quarter ending June 30.	Third quarter ending September 30.	Fourth quarter ending December 31.	TOTAL.
Electric Lighting	$42,615 94	$41,384 52	$41,842 79	$48,745 32	$174,588 57
Gas	6,937 03	5,004 57	5,496 08	6,043 71	23,481 39
Lamplighters, pay	7,547 05	7,038 39	7,206 01	5,864 82	27,656 27
Gasoline	2,560 32	2,596 23	2,611 53	3,222 36	10,990 44
Salary	425 00	425 00	425 00	425 00	1,700 00
Gas Company, Labor	265 54	317 00	349 89	251 21	1,183 64
Yard Labor	312 00	362 25	350 00	364 00	1,388 25
Naphtha	409 74	380 56	380 31	351 62	1,522 23
Horses, Harnesses, etc	108 67	124 48	169 34	155 22	557 71
Stock for Work Shop	259 00	47 98	52 48	171 68	531 14
Telephone	5 65	6 09	110 00		121 74
Lamps, Ladders, etc	341 24	78 00	92 25	...	511 49
Gas, for Bridges	117 07	60 26	50 83	73 37	301 53
	$61,904 25	$57,825 33	$59,136 51	$65,668 31	$244,534 40
Receipts for Old Material	3 00	262 14	18 28	25 00	308 42
Net Expenses	$61,901 25	$57,563 19	$59,118 23	$65,643 31	$244,225 98

CONCLUSION.

The annual appropriation for this department for the fiscal year ending September 30, 1896, is two hundred and seventy-five thousand dollars.

The expenses for the first quarter ending December 31, 1895, were sixty-six thousand, two hundred five dollars fifty-two cents, and the unexpended balance of two hundred eight thousand, seven hundred ninety-four dollars forty-eight cents, as it appears, will hardly be sufficient for the ordinary expenses of the department for the remainder of the year.

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To his Honor the Mayor and the several members of the lamp committees for their willing assistance rendered me in the discharge of my duties during the year, I beg leave to present my grateful acknowledgments.

Respectfully submitted,

OLIVER E. GREENE,

Superintendent of Lights.

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THIRTEENTH ANNUAL REPORT

OF THE

Superintendent of Health,

OF THE

CITY OF PROVIDENCE,

FOR THE YEAR ENDING DECEMBER 31, 1895.



REMINGTON PRINTING CO., CITY PRINTERS,
63 Washington Street.
1896.

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MAYOR,

EDWIN D. McGUINNESS.

BOARD OF ALDERMEN,

Ex-officio

BOARD OF HEALTH,

1896.

PRESIDENT,

ROBERT B. LITTLE.

CHARLES C. NICHOLS, - - -	FIRST WARD.
ROBERT W. BURBANK, - - -	SECOND WARD.
DENNIS F. McCARTHY, - - -	THIRD WARD.
GEORGE L. PIERCE, - - - -	FOURTH WARD.
WILLIAM K. REYNOLDS, - - -	FIFTH WARD.
MYRON H. FULLER, - - - -	SIXTH WARD.
ROBERT B. LITTLE, - - - -	SEVENTH WARD.
HERBERT A. RICHARDS, - - -	EIGHTH WARD.
IRA WINSOR, - - - - -	NINTH WARD.
EDWARD H. DARCY, - - - -	TENTH WARD.

CLERK,

WILLIAM E. CLARKE.

COMMITTEE ON HEALTH DEPARTMENT,

EDWARD H. DARCY, *Chairman.*

ROBERT W. BURBANK, DENNIS F. McCARTHY.

SUPERINTENDENT OF HEALTH AND CITY REGISTAR,

CHARLES V. CHAPIN, M. D.

VACCINATING PHYSICIAN,

CHARLES H. LEONARD, M. D.

MEDICAL INSPECTOR,

EUGENE P. KING, M. D.

INSPECTOR,

WALTER J. LEWIS.

SIGNAL OFFICER AT QUARANTINE,

JOHN S. ADAMSON.

INSPECTOR OF PROVISIONS,

WILLIAM H. GLADDING.

CLERK,

GRACE I. WOODS.

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REPORT.

OFFICE OF THE SUPERINTENDENT OF HEALTH,
February 13, 1896.

TO THE HONORABLE THE CITY COUNCIL:

The Superintendent of Health hereby presents his report for the year ending December 31, 1895.

The number of deaths reported during the year was 3,087, which was 191 more than in the preceding year. The population of the city, according to the State census taken in June, 1895, was 145,472, and the death rate based upon this was 21.22.

There were 296 deaths from diarrhœal diseases in 1895. This was 18 more than in the preceding year. The 296 deaths were 9.62 per cent. of the total deaths.

There were in 1895 ten deaths from malarial diseases, two less than in 1894.

Epidemic influenza reappeared in December, 1894, and continued into the early part of 1895, causing 39 deaths in the first half of the year, of which 20 were in March and 10 in April. The total number of deaths from this disease during the year was 40.

CONTAGIOUS DISEASES.

The diseases referred to under this heading in this report are measles, whooping cough, scarlet fever, typhoid fever, diphtheria and small pox.

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Measles caused 40 deaths in 1895. The deaths in previous years since 1856 are shown in the following table:

1856 1	1866 9	1876 0	1886 7
1857 2	1867 0	1877 2	1887 90
1858 40	1868 4	1878 50	1888 2
1859 0	1869 6	1879 0	1889 14
1860 0	1870 16	1880 3	1890 31
1861 6	1871 1	1881 25	1891 4
1862 1	1872 7	1882 4	1892 10
1863 16	1873 28	1883 8	1893 63
1864 7	1874 4	1884 7	1894 5
1865 7	1875 0	1885 8	1895 40
			40 years 523

Whooping cough caused 27 deaths in 1895. The deaths in previous years since 1856 are shown in the following table:

1856 10	1866 8	1876 35	1886 23
1857 2	1867 2	1877 16	1887 12
1858 7	1868 13	1878 43	1888 28
1859 22	1869 16	1879 15	1889 44
1860 19	1870 24	1880 11	1890 30
1861 25	1871 10	1881 40	1891 53
1862 3	1872 10	1882 40	1892 8
1863 6	1873 18	1883 4	1893 11
1864 10	1874 33	1884 28	1894 53
1865 31	1875 8	1885 24	1895 27
			40 years 822

The number of deaths from scarlet fever in 1895 was 64, which was 8 more than in the preceding year. This was 2.07 per cent. of the deaths from all causes.

There were 46 deaths from typhoid fever, or 1.10 per cent. of the deaths from all causes. This was 24 less than in 1894. Twelve of these deaths were in December.

Diphtheria caused 79 deaths in 1895, or 2.55 per cent. of all deaths. This was 33 more deaths than in 1894.

There were 355 deaths from phthisis in 1895, or 24 more than in 1894. This was 11.11 per cent. of all deaths.

Cases of scarlet fever, typhoid fever and diphtheria are reported to this office by the attending physicians, who are by law required to make these reports without compensation. The faithfulness and care with which this is done by almost all speaks highly for their interest in their profession

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and in the public welfare. Some few cases of contagious disease where there is no physician in attendance are brought to light through the reports of school teachers or by the personal investigations of the medical inspector.

The following list shows the number of cases of contagious diseases during the last eight years that the attending physician failed to report and which were discovered in other ways:

Year.	Scarlet Fever.	Typhoid Fever.	Diphtheria.
1886	14	11	21
1887	125	18	62
1888	29	4	50
1889	4	6	15
1890	2	4	7
1891	6	7	9
1892	6	6	1
1893	11	9	2
1894	24	12	1
1895	18	13	8

In addition to the above, during 1895 four cases of scarlet fever and two of diphtheria were discovered by the medical inspector where there was no physician in attendance.

The Rhode Island Hospital now receives patients suffering with contagious diseases provided pay for the same at the rate of $15.00 per week is assured. During the year sixty-four cases were removed to the hospital under my direction, and the total expense to the city in caring for them was $3,614.78. Three of the patients paid their own board, either wholly or in part. The hospital was first opened for the reception of these patients in 1891, and the following shows the number of cases admitted during that time, and also the number of deaths that occurred in the hospital:

Year.	SCARLET FEVER. Cases.	Deaths.	DIPHTHERIA. Cases.	Deaths.	Total cases.	Expense.
1891	6	0	4	1	10	$486 43
1892	13	2	4	1	17	1,553 36
1893	20	1	5	1	25	1,267 77
1894	27	2	4	2	31	2,297 07
1895	37	0	27	3	64	3,614 78
Totals	103	5	44	8	147	$9,219 41

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As was stated in my last report, the facilities now possessed by the Rhode Island Hospital for the care of these diseases are entirely inadequate, and the City Council recognizing this appropriated a sum of money for the construction of two new wards. It was found, however, that additional legislation was needed before this could be done legally, and a resolution was adopted and approved February 23, 1895, directing the City Solicitor to apply to the General Assembly for such legislation. In accordance with this instruction such application was made and the following law was passed:

CHAPTER 1408.

AN ACT AUTHORIZING THE MAYOR OF THE CITY OF PROVIDENCE TO CONTRACT WITH RHODE ISLAND HOSPITAL FOR THE CONSTRUCTION AND MAINTENANCE OF A HOSPITAL FOR CARE OF CONTAGIOUS AND INFECTIOUS DISEASES.

It is enacted by the General Assembly as follows:

SECTION 1. The Mayor of the City of Providence is hereby authorized and empowered to contract on behalf of the city of Providence, with the Rhode Island Hospital of said Providence, for the construction and maintenance of a hospital ward building or buildings for the care of contagious and infectious diseases at a cost not to exceed the sum of seventeen thousand five hundred dollars, said sum to be charged to the appropriation for contingencies.

SEC. 2. This act shall take effect from and after its passage.

It was afterwards deemed advisable for the City Council to adopt the following resolution, which was approved September 10, 1895:

RESOLVED, That the City Auditor is hereby authorized and directed to draw his drafts upon the City Treasurer for such amounts as shall be approved by the Mayor, not ex-

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ceeding seventeen thousand five hundred dollars, to comply with the provisions of Chapter 1408 Public Laws of Rhode Island, passed March 1, 1895, authorizing the Mayor to contract with the Rhode Island Hospital for the construction and maintenance of a hospital ward building for the care of contagious and infectious diseases; said sum to be charged to the appropriation for contingencies.

In accordance with the statute and resolution a contract was drawn up and signed August 7, 1895. The hospital was begun shortly after, and the outside work on it is now completed.

SCARLET FEVER.

The table on page 8 shows the cases and deaths from scarlet fever for each month during the last eleven years, and the number and ratio of deaths and cases for the last twelve years. There were 235 more cases and 8 more deaths in 1895 than in 1894.

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SCARLET FEVER.

Year.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total Cases.	Total Deaths	Ratio of Deaths to Cases.
1884.															
Cases													538		
Deaths														57	10.59
1885.															
Cases	69	43	42	23	24	19	10	13	30	45	25	40	383		
Deaths	5	8	8	4	..	1	2	1	2	3	1	3		38	9.92
1886.															
Cases	56	39	16	19	15	4	14	12	11	15	16	20	237		
Deaths	4	3	...	1	1	2	2	4	1	3	4	5		30	12.65
1887.															
Cases	54	38	39	48	22	21	26	42	75	256	122	105	848		
Deaths	8	3	4	1	2	5	8	10	17	47	22	26		153	18.04
1888.															
Cases	91	49	44	45	31	18	15	9	13	12	21	13	361		
Deaths	18	19	9	13	8	4	1	1	1	2	3	...		80	22.16
1889.															
Cases	16	13	34	19	11	14	3	6	13	9	14	10	162		
Deaths	4	...	3	8	3	2	4	...	...	1	..	...		25	15.43
1890.															
Cases	1	6	20	16	13	9	3	1	5	4	24	34	136		
Deaths	...	1	1	1	2	..	...	..	...	...	2	1		8	5.88
1891.															
Cases	53	53	47	48	40	13	17	9	11	34	40	37	405		
Deaths	1	..	5	2	...	1	1	...	1	2	.	4		17	4.19
1892.															
Cases	45	48	65	50	36	42	15	10	17	24	43	77	472		
Deaths	4	5	6	1	4	3	1	2	...	...	4	7		37	7.84
1893.															
Cases	70	64	63	95	122	89	69	66	46	58	51	72	865		
Deaths	8	6	6	9	12	14	12	6	14	2	1	7		97	11.21
1894.															
Cases	99	48	37	54	59	28	33	44	48	103	89	112	754		
Deaths	8	6	4	8	8	...	2	2	7	5	3	3		56	7.42
1895.															
Cases	144	120	129	129	52	48	54	60	56	54	78	65	989		
Deaths	8	7	12	16	6	4	2	4	...	2	2	1		64	6.47
Totals.															
Cases	696	521	536	546	425	305	259	272	325	614	523	585	5,609		
Deaths	68	58	58	64	46	36	35	30	43	67	42	57		604	10.76

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The following table gives the results of my observations during the past nine years concerning certain points in the etiology and prevention of scarlet fever. This table does not include all the families and cases, as some pass from observation through removal or otherwise; but for 1893 and 1894 and 1895 all cases are included:

	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	Total
Number of families in which there was more than one susceptible child	232	244	73	66	198	220	345	359	478	2,215
Number of these in which there was a second case	130	147	30	27	78	90	150	177	216	1,045
Number of susceptible children in all the above families	986	827	242	215	605	711	1,212	1,293	1,750	7,841
Number of these children who were attacked	452	511	126	105	341	389	642	687	876	4,129
Number of additional families with susceptible children in the house where the disease appeared	112	128	18	15	98	154	198	244	123	990
Number of susceptible children in these families	381	354	34	30	238	369	493	587	572	3,058
Number of these additional families attacked	27	16	0	2	10	21	16	20	27	139
Number of children in these families who were attacked	58	21	0	2	12	44	34	34	33	238
Number of families where inunction was practiced	87	99	36	38	124	126	172	..	..	682
Number of instances in the above families where the disease spread beyond the first case	44	64	12	15	46	60	131	..	..	372
Number of susceptible children in these families	218	496	191	132	382	413	717	..	..	2,549
Number of these children who were attacked	148	319	56	65	198	241	444	..	..	1.471

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Number of tenements disinfected where there were other families with susceptible children in the house.....	49	56	10	4	20	26	42	109	177	493
Number of above where the disease spread to other families in the house.....	5	5	0	0	2	1	2	2	2	19
Number of susceptible children who were at once removed.....	23	18	10	9	27	42	86	102	117	434
Number of these who were attacked on their return.....	3	1	0	0	0	2	8	4	6	24
Number of children who were exposed and who had previously had scarlet fever.....	..	..	..	..	..	..	..	100	178	278
Number of these who were attacked a second time.....	..	..	..	..	..	..	..	13	27	40
Number of adults who were exposed and who had previously had scarlet fever...	..	..	..	..	..	..	..	230	311	541
Number of these who were attacked a second time.....	..	..	..	..	..	..	..	8	2	10
Number of families with susceptible children where there was isolation.....	..	..	..	..	41	27	127	37	53	285
Number of families where more than one child was attacked....	..	..	..	..	23	13	32	14	15	97
Number of susceptible children in families where there was isolation.....	..	..	..	..	130	69	291	96	172	758
Number of the above who were attacked....	..	..	..	..	52	23	108	52	74	309

The great value of the removal of the well children from the infected house or of the sick patient to the hospital is well shown by the history of scarlet fever in this city. Thus since 1888 453 such children have been removed and 24 only were attacked on their return. Of the 126 cases in 1895 only 6 were attacked. Of these six cases one was away two weeks, one one week, and four only four days.

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Besides these there were four children who were removed but who were taken sick soon afterwards, evidently having been infected before their removal. The time that the 434 children were away is shown in the following:

	Number of Weeks Away.									
	1	2	3	4	5	6	7	over 7	Unknown	Total Children
Children who were attacked on return.....	7	5	5	5	2					24
Children who were not attacked on return.....	20	29	86	87	126	74	18	21	8	419

If these children had remained at home about half of them would undoubtedly have had scarlet fever.

In 1894 there were 24 children in the families of persons who were removed to the Rhode Island Hospital while suffering from scarlet fever. This year the number of children protected from contagion in this way was 28, making in the two years 52 children. None of these were attacked on the return of the patient from the hospital.

There were 27 instances in 1895 in which scarlet fever occurred in more than one family in a house. During the eight years in which these records have been kept the disease has spread or simultaneously occurred in 139 out of 990 families who resided in the same house with a scarlet fever case. In the 27 families in which this happened in 1895 there was no attempt whatever at isolation except in three instances. In 5 of the 27 cases the disease occurred simultaneously in the two families. In all except the three cases where isolation was attempted it was apparent that no precautions would be taken by either of the families concerned. From these facts I am inclined to think that in the majority of cases the children who live in a house where there is scarlet fever, but not in the family with it, may be allowed to attend school. In crowded tenements and among ignorant people this privilege must be withheld. This would perhaps be in about one-quarter of all cases.

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A perusal of the table on page 10 shows that with fair care in the isolation of the patient the danger of the spread of the disease is very much lessened. Thus in all the cases tabulated the disease spread beyond the first case in 47 per cent. and attacked 52.6 per cent. of the children in the houses. Where an attempt at isolation was made it spread in 34 per cent. of the families and involved 40.7 per cent. of the children. There appears to be an improvement in isolation from year to year, for in 1895 the disease spread beyond the first case, in families where there was isolation, in 28.3 per cent. of the cases, though involving 43 per cent. of the children. A fairer way would be to throw out those instances in which the second case was taken sick within two days of the first, for in such there was probably a common infection, or at least isolation could not be expected to have prevented the second case. Five of the fifteen cases in 1895 belonged to this class, and if we omit these we find that in 20.8 per cent. the disease involved more than one child. In cases where no attempt at isolation is made the disease spreads in about half the cases.

The following table shows the number and percentage of persons of different ages exposed to scarlet fever who contracted it and also the number who did not. When I began to collect these facts the inspector was not careful to obtain the age in every case, so that until 1890 only a portion of the cases are contained in the table, and it was only in 1894 that the facts in regard to all the adults in the family were obtained.

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SCARLET FEVER.

Ages.	Cases.								Number Exposed.								Ratio of cases to number exposed.
	1887-89.	1890.	1891.	1892.	1893.	1894.	1895.	Total.	1887-89.	1890.	1891.	1892.	1893.	1894.	1895.	Total.	
Under 1 year.	28	1	12	23	22	10	50	146	116	1	40	54	77	76	178	542	26.9
1 "	36	3	15	21	45	41	38	199	86	7	28	45	74	68	147	455	43.7
2 years	100	8	23	33	73	56	72	365	177	16	45	52	108	88	185	671	54.3
3 "	99	9	30	39	74	76	101	428	177	13	49	62	98	102	243	744	57.5
4 "	104	12	32	43	83	62	89	425	173	13	46	59	110	88	215	704	60.3
5 "	82	9	48	56	89	84	106	474	183	14	59	77	117	125	243	818	57.9
6 "	101	12	42	42	98	75	91	461	169	19	59	58	129	94	219	747	61.7
7 "	93	10	40	42	72	70	102	429	151	18	61	61	111	96	252	750	57.2
8 "	68	15	17	32	66	55	53	306	143	25	41	46	104	87	158	604	50.6
9 "	61	13	31	32	43	35	53	268	148	18	49	52	77	58	144	546	49.0
10 "	41	10	18	13	32	43	51	208	90	6	33	33	70	69	134	435	47.8
11 "	41	2	24	18	25	19	27	156	96	8	42	27	54	47	82	356	43.8
12 "	29	5	8	15	24	27	30	138	89	15	27	37	58	46	98	370	37.2
13 "	24	9	10	9	16	12	22	102	73	10	20	21	46	38	74	282	36.1
14 "	19	2	14	9	12	16	16	88	65	11	19	19	43	44	66	267	32.9
15 "	14	4	7	1	10	11	12	59	61	6	15	12	30	37	48	209	28.2
16 "	11	1	8	4	6	5	10	45	36	11	16	13	27	30	53	186	24.1
17 "	7	1	2	5	9	6	9	36	31	2	6	13	21	23	41	137	26.2
18 "		4	3	6	2	3	5	23	2	8	5	14	20	19	40	108	21.2
19 "	5	1	3	1	8		5	23	15	1	6	4	19	20	37	102	22.5
20 "	6	2	3	2	5	3	4	25	14	4	8	6	16	16	30	94	26.5
Adults	39	3	15	23	46	43	42	211	56	50	81	138	509	847	1377	3058	6.8
Total	1008	136	405	469	860	749	988	4615	2151	276	755	903	1918	2118	4064	12185	37.8

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The data furnished by tables similar to the above were discussed in my report for 1894.

DIPHTHERIA.

The discovery of the culture method of assisting in the diagnosis of diphtheria was taken advantage of in this city with the opening of the year 1895. During January cultures were taken from a number of cases and sent to Dr. H. C. Ernst, of the Harvard Medical School, who kindly offered to make these examinations for us. There was considerable difficulty in having the work done at such a distance, so when the State Board of Health, through its secretary, Dr. Gardner T. Swarts, offered to do this diagnostic work free of charge for the cities and towns of this State this department gladly availed itself of the offer. Since the latter part of January all the cultures have been made in the laboratory connected with the State Board of Health. The following circular was sent to the practicing physicians of the city and explains the arrangements that were at that time made:

HEALTH DEPARTMENT.

OFFICE SUPERINTENDENT OF HEALTH,
CITY HALL, PROVIDENCE, January 21, 1895.

DEAR DOCTOR:

It has now been well established that it is only by means of a bacteriological examination that the diagnosis of diphtheria can be confirmed. If a culture from the throat of a patient is made upon properly prepared blood-serum the presence or absence of the Klebs-Lœffler bacillus, the only criterion of diphtheria, can be determined in the course of twelve to twenty-four hours by the character of the growth upon the serum. It is needless to say that the diagnosis of these cases should, for the interest of the patient, the family and the physician, be made as early and as surely as possible.

The Secretary of the State Board of Health has offered to make such examinations, and the Health Department of this city is very glad to take advantage of his offer.

Blood-serum tubes, with directions for making cultures, are to be obtained at the office of the Health Department, City Hall, at the State Board of Health, 48 Weybosset street, from 9 A. M. to 5 P. M., and at the following pharmacists:

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W. O. Blanding, 48 North Main street; Blanding & Blanding, 58 Weybosset street; W. O. Blanding, 855 Westminster street; S. J. Briggs & Co., 309 Smith street; W. E. Cates, 245 Prairie avenue; Geo. L. Claflin & Co., 62 South Main street; O. Clapp & Son, 417 Westminster street; J. F. Gibson, 1349 Westminster street; W. H. Green, Jr., 110 Elmwood avenue; Charles A. Gladding, 309 Elmwood avenue; N. N. Mason, 129 North Main street; H. A. Pearce, 370 Elmwood avenue; William Russell, Jr., 913 Eddy street; O. Sumner & Son, 326 Weybosset street; J. M. Fenner, 706 Cranston street.

It is earnestly requested that every physician, as soon as he is called to a case of diphtheria, or suspected diphtheria, obtain a tube, make a culture in accordance with the directions accompanying it, and return the same to the office of the State Board of Health before 5 P. M. When it is impracticable to return the tube, if a telephone message is sent to my office before 5 P. M. the tube will be called for wherever left by the physician. After 5 P. M. the tubes can be left at my house, 84 Keene street, or with Dr. Swarts, 441 Broad street.

It is strongly urged that cultures be taken from all casee of sore throat with exudations, and also from the pharynx in croup, for recent investigations have shown that in many such cases diphtheria has been found when it was not suspected.

Now that a positive method of diagnosis has been found, membranous croup is hereafter to be included among the diseases to be reported to this department.

While a culture is under examination no action will be taken by this department towards placarding the house until the diagnosis is established, but it is earnestly requested that the attending physician meanwhile insist upon the strictest precautions, keeping the well children from school and also separating them from the sick if practicable.

The presence or absence of the Klebs-Lœffler bacillus being a ready means of determining whether or not a patient is free from infection, a bacteriological examination will be required to show when in each case the card can be removed from the house. Such culture is to be taken by the attending physician unless otherwise requested.

CHARLES V. CHAPIN,

Superintendent of Health.

The physicians have very generally made use of this method of diagnosis, but still not as generally as I would wish. At first I think that perhaps too great reliance was placed on this method. We must remember that it is by no means perfect and that the results are least certain when negative. The culture method is only one method of diagnosis, though by far the most useful and important. It is,

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however, to be insisted on that whenever the examination shows the presence of the Klebs-Lœffler bacillus the case must be treated as diphtheria. The law in Providence at present does not require the reporting of cases of membranous croup, but I trust that it will soon be amended so as to include that disease. In order to call the attention of physicians to the above points the following circular was issued. The statements and directions therein concerning sore throat met with general disapproval, but I nevertheless consider it necessary that in the great majority of cases of acute inflammation of the tonsils and pharynx and larynx one or more cultures should be taken to aid in the diagnosis, for it has been abundantly demonstrated that in a very large proportion of cases clinical symptoms do not suffice for a diagnosis.

HEALTH DEPARTMENT.

OFFICE SUPERINTENDENT OF HEALTH
CITY HALL, PROVIDENCE, December 26, 1895.

DEAR DOCTOR:

It has now been certainly determined that diphtheria is characterized by the presence in and upon the inflamed tissues of a specific micro-organism generally known as the Klebs-Lœffler bacillus. It is indeed recognized that other forms of tonsilitis, pharyngitis and laryngitis may occur without the presence of this bacillus, but such affections are usually benign except in certain cases of exudative laryngitis. In anginas without the Klebs-Loeffler bacillus the mortality is scarcely one or two per cent., while in affections in which the bacillus is found the mortality ranges from 25 to 50 per cent., and sometimes more. Common usage has restricted the use of the term diphtheria to these affections in which the Klebs-Loeffler bacillus is found. It is in this class of cases characterized by the presence of this organism that it is on account of their danger to life necessary to employ restrictive measures. By the use of the culture method of diagnosis, such as is now rendered available through the action of our State Board of Health, it is possible to recognize such cases with a very great degree of certainty. It is not, however, to be affirmed that a culture test is always reliable. Chemical tests sometimes fail, and biological tests are from the nature of the case less certain. But actual experience in this city, and in an enormous number of trials in other cities of this country and in Europe, have shown that a single bacteriological examination may in the great majority of cases be relied upon to determine whether or not a given case is diphtheria. And it has also been demon-

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strated, as the majority of us have long felt, that it is in a large proportion, perhaps in a considerable majority of cases, impossible to make a diagnosis by clinical signs alone.

If such are the facts, and it is presumed that none will deny them, it follows that it is necessary either to isolate every case of sore throat and croup as well as of clearly recognized diphtheria, or else to test every such case by means of a culture. It is my duty, therefore, to ask you to report all cases of sore throat, croup and diphtheria. The best way to report is to send in a culture to this department or to the State Board of Health. If such a culture is sent in, no action will be taken, such as placarding, etc., until the result of the culture is reported. But it is earnestly requested that the physician insist upon all necessary precautions until the result of the culture is known.

In case the attending physician neglects to report a case of sore throat or croup which afterwards comes to the notice of this office, it will be necessary for this department to take a culture or placard the house as the facts may warrant.

If the result of the bacteriological examination is negative, and in the opinion of the attending physician the clinical symptoms still indicate diphtheria, his diagnosis of course is to be accepted, as it is recognized that the test is not infallible except when positive.

In all cases isolation is to be maintained as long as the Klebs-Loeffler bacillus is found in the throat, and this fact is to be determined by a culture.

If it is not convenient for a physician to obtain or return a culture tube, one will be furnished and returned by a messenger from this office, or the culture will, if desired, be taken by the medical inspector.

In all business with this office concerning contagious diseases use the telephone when possible, as it insures greater promptness.

Yours truly,

CHARLES V. CHAPIN,
Superintendent of Health.

Such being the state of the case in regard to the diagnosis of diphtheria, I was somewhat at a loss to know how to tabulate the cases for the year just past. The proper way, of course, would be to have satisfactory cultures from all cases and only count as diphtheria those in which the characteristic bacilli are found. But this is not yet possible, so for purposes of comparison with other years I have in the tables on pages 19, 21 and 22 counted as diphtheria not only the cases in which the Klebs-Lœffler bacilli were found, but also those cases which my judgment or that of the attend-

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ing physician exhibited the clinical symptoms of that disease. In other words, I have included all cases that would in past years have been called diphtheria and also those cases in addition which would not have been so considered if it had not been for the finding of the characteristic bacillus. There are among these eight cases in which no Klebs-Loeffler bacilli were found but in which there was a subsequent death certified to by the attending physician as diphtheria.

The following table shows the cases and deaths from diphtheria for each month during the last eleven years and the ratio of deaths to cases during the last twelve years:

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DIPHTHERIA.

Year.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total Cases.	Total Deaths	Ratio of Deaths to Cases.
1884.															
Cases	...	...	...	...	...	...	...	...	...	...	...	...	193		
Deaths	...	...	...	...	...	...	...	...	...	...	...	...		58	30.05
1885.															
Cases	29	15	10	5	5	5	5	3	5	16	22	38	158		
Deaths	6	3	...	1	2	...	4	3	3	3	3	8		37	23.41
1886.															
Cases	25	33	19	12	27	34	33	9	13	33	38	46	322		
Deaths	4	7	6	8	6	8	2	8	14	15	7	14		98	30.43
1887.															
Cases	34	19	11	25	14	17	7	14	43	50	38	32	304		
Deaths	11	8	2	7	10	10	4	9	15	13	12	8		109	35.85
1888.															
Cases	33	20	25	16	20	6	8	7	14	25	28	28	230		
Deaths	9	5	14	5	6	4	8	3	4	12	9	18		98	42.60
1889.															
Cases	34	19	27	18	19	21	22	19	25	47	25	27	303		
Deaths	10	7	10	5	14	4	8	5	9	8	6	11		97	32.01
1890.															
Cases	42	42	36	22	23	21	13	33	12	14	15	28	301		
Deaths	17	15	7	9	7	4	6	8	6	7	3	5		94	31.22
1891.															
Cases	17	40	16	24	15	6	14	5	17	27	22	15	218		
Deaths	4	4	6	3	6	4	3	2	4	6	5	1		48	21.91
1892.															
Cases	1	3	25	12	14	17	6	5	3	18	20	14	138		
Deaths	1	5	4	3	4	3	3	1	2	4	4	5		39	28.26
1893.															
Cases	8	12	22	27	7	15	9	4	23	27	14	21	189		
Deaths	2	2	4	5	3	4	4	2	4	7	3	6		46	24.33
1894.															
Cases	15	11	7	18	24	20	2	4	11	14	17	23	166		
Deaths	5	4	6	4	6	7	...	...	2	3	5	4		46	27.71
1895.															
Cases	45	15	7	25	34	20	16	26	34	38	57	69	386		
Deaths	6	1	2	2	4	7	4	6	9	10	13	15		79	20.46
Totals.															
Cases	283	229	205	204	202	182	135	129	200	309	296	341	2,715		
Deaths	75	61	61	52	68	55	46	47	72	88	70	95		790	29.

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The following table shows the number and percentage of persons of different ages exposed to diphtheria who contracted it and the number who did not. This table includes both the Klebs-Loeffler diphtheria and clinical diphtheria. When I began to collect these facts in 1889, the inspector was not careful to obtain the age in every case, so that until 1890 only a portion of the cases are contained in the table, and it was only in 1894 and 1895 that the facts in regard to all the adults in the family were obtained.

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DIPHTHERIA.

Ages.	Cases.								Number Exposed.								Ratio of cases to number exposed.
	1889.	1890.	1891.	1892.	1893.	1894.	1895.	Total.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	Total.	
Under 1 year.	3	10	3	4	5	4	13	42	23	36	15	21	25	23	46	189	22.22
1 "	13	11	8	6	12	7	10	67	23	20	22	13	17	25	37	157	42.67
2 years	23	29	15	10	17	14	34	142	32	42	27	19	29	29	52	230	61.73
3 "	18	26	29	10	20	9	35	147	36	40	39	21	25	22	57	240	61.25
4 "	23	24	18	12	19	18	36	150	32	39	32	27	31	24	54	239	62.76
5 "	27	21	23	13	10	25	20	139	37	38	41	28	25	37	48	254	54.72
6 "	23	19	9	8	14	17	24	114	39	29	23	14	30	29	55	219	52.05
7 "	17	14	13	14	8	5	30	101	35	34	23	26	19	19	47	203	49.75
8 "	14	19	11	4	15	13	22	97	25	33	29	10	26	32	44	199	48.74
9 "	10	13	8	10	6	5	12	64	25	27	18	19	18	16	38	161	39.75
10 "	13	13	6	7	3	4	19	65	22	27	16	19	17	18	31	150	43.33
11 "	11	6	7	3	2	4	11	44	19	20	10	11	14	15	26	115	38.26
12 "	15	12	10	3	5	8	17	70	28	25	25	9	18	12	32	149	46.97
13 "	4	4	3	1	2	3	12	29	9	19	10	9	8	10	31	96	30.10
14 "	3	8	2	.....	5	1	7	26	13	20	6	5	12	6	20	82	31.70
15 "	4	2	6	1	1	1	3	18	9	8	13	6	6	12	23	77	23.37
16 "	2	9	2	1	....	1	3	18	6	24	9	6	13	6	17	81	22.22
17 "	2	3	9	1	2	3	3	23	8	4	16	3	8	6	15	60	38.33
18 "	3	4	3	.....	4	1	2	17	6	8	8	7	8	6	12	55	30.90
19 "	2	.....	.....	2	2	2	1	9	5	3	2	4	12	4	8	38	23.68
20 "	2	2	1	2	1	1	3	12	4	5	4	2	7	3	6	31	38.70
Adults.....	36	49	32	21	39	17	50	244	267	485	181	210	350	273	272	2038	11.97
Totals.....	268	298	218	132	192	163	367	1638	703	986	569	489	718	627	971	5063	32.35

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In the above are not included sixteen cases that occurred at the Children's Home and three at the Rhode Island Nursery, all of which appear in the table on page 19.

The following shows certain facts in the natural history of this disease:

	1889.	1890.	1891.	1892.	1893.	1894.	1895.	Total
Number of families in which there was more than one child.	121	112	102	77	105	102	188	807
Number of these in which there was more than one case.....	47	42	37	19	32	29	62	268
Number of children in all the above families.....	472	422	356	269	356	345	288	2,508
Number of these children who were attacked.....	231	191	164	112	91	144	180	1,113
Number of additional families with children in the same house.....	38	59	41	62	64	68	94	426
Number of children in these families.....	95	167	89	171	185	176	233	1,116
Number of these additional families attacked.....	7	11	3	1	1	5	14	42
Number of children in these families who were attacked.....	11	14	7	1	1	5	14	53
Number of tenements which were disinfected where there were other families with children in the house.....	9	14	14	9	16	26	43	131
Number of instances of the above where the disease spread to other families in the house....	1	4	0	1	0	1	8	15
Number of well children who were at once removed.....	26	28	26	31	42	27	76	256
Number of these who were attacked on their return.....	0	2	0	3	1	0	1	7
Number of those exposed who had a previous attack.....	51	38	20	18	40	42	..	209
Number of the above attacked...	25	8	13	6	10	5	..	67

It will now be interesting to compare the cases in which the Klebs-Loeffler bacilli were found with those in which the bacteriological examination gave a negative result. The following shows the age distribution, and degree of contagiousness in the two classes of cases:

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Ages.	Cases in which Bacilli were found.			Cases in which Bacilli were not found.		
	Cases.	Number exposed.	Ratio of cases to number exposed.	Cases.	Number exposed.	Ratio of cases to number exposed.
Under 1 year.	13	31	41.9	6	19	31.5
1 "	10	27	37.0	1	15	6.6
2 years	34	46	73.9	8	16	50.0
3 "	35	50	70.0	10	22	45.4
4 "	36	47	76.5	8	20	40.0
5 "	20	34	58.8	11	22	50.0
6 "	24	41	58.5	10	14	71.4
7 "	30	37	81.0	5	18	27.7
8 "	22	36	61.1	6	23	26.0
9 "	12	26	46.1	6	12	50.0
10 "	19	24	79.1	3	8	37.5
11 "	11	20	55.0	1	6	16.6
12 "	17	26	65.3	2	5	40.0
13 "	12	20	60.0	5	6	83.3
14 "	7	14	50.0	1	5	20.0
15 "	3	14	21.4	2	5	40.0
16 "	3	11	27.2	2	4	50.0
17 "	3	11	27.2	1	4	25.0
18 "	2	9	22.2	4	8	50.0
19 "	1	7	14.2	1	2	50.0
20 "	3	3	100.0	2	5	40.0
Adults.....	50	247	20.2	37	95	38.9
Totals.....	225	781	28.8	132	334	39.5

In the above 225 cases of diphtheria are not included sixteen at Children's Home and three at Rhode Island Nursery.

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In regard to the mortality in the two classes of cases, namely those with and those without the Klebs-Loeffler bacilli, it was, as was to be expected, very much greater in the former. Thus among the 244 cases in which the Klebs-Loeffler bacilli were found there were thirty deaths, which gives a mortality of 12.3 per cent. Among the 132 cases in which none of these bacilli were found by the culture method there were seven deaths, or 5.3 per cent. Of these seven deaths one occurred not many days after an attack of measles, and in another the physician did not feel that he had touched the affected part of the throat with the swab. Two of the cases were called croup, and in one, in which tracheotomy was performed, a culture was taken from membrane which was coughed up, but no bacilli were present. Besides the above there were six deaths of persons whose throats were not examined bacteriologically, but who lived in families (or, in one instance, in a house) in which there were one or more persons sick whose throats had been so examined and in which bacilli were not found. In nearly all cases the culture was taken by the attending physician, and as it has been shown that considerable practice is required to secure the best results it is rather surprising that failure to find the bacillus were not more frequent.

There were also twenty-four cases in which an examination of the throat failed to show the presence of Klebs-Loeffler bacilli, all of which subsequently proved to be scarlet fever. There were four negative cultures from cases which proved to be measles, pneumonia, typhoid fever and general tuberculosis.

Antitoxin has been used rather sparingly in this city, only seventy-five cases having come to my knowledge, and it is not probable that it was used in many others. Most of the serum used was that obtained from the Pasteur Institute in New York, but some of Behring's and a little of Roux's has been used.

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Antitoxin has been used in forty-six cases of sickness in which Klebs-Loeffler bacilli were found, with nine deaths.

Antitoxin has been used in nineteen cases of sickness presenting decidedly the clinical symptoms of diphtheria but from which no cultures were taken. Of these nineteen cases eight died.

The total is sixty-five cases with seventeen deaths, giving a mortality of 26.1 per cent. The mortality in those cases of diphtheria in which antitoxin was not used was 20 per cent. But it must be admitted that most of the cases to which antitoxin was administered were very sick, and many of them very low indeed at the time of administration.

Antitoxin was also used to immunize ten children who were exposed to the disease, one of whom was taken sick thirty days afterwards but recovered. Cultures showed that the bacilli were present in the throat during this thirty days.

TYPHOID FEVER.

The following table shows the number of cases and deaths for each month during the last eleven years, and the number and ratio of cases and deaths each year during the last twelve years:

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TYPHOID FEVER.

YEAR.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total Cases.	Total Deaths	Ratio of Deaths to Cases.
1884.															
Cases													122		
Deaths														52	42.62
1885.															
Cases	6	7	8	7	5	5	2	6	15	8	11	4	84		
Deaths	3	4	2	2	4	3	2	4	6	5	8	1		44	52.38
1886.															
Cases	6	5	2	5	5	3	4	12	24	16	13	9	104		
Deaths	3		5	5	3		1	6	8	11	5	6		53	50.96
1887.															
Cases	5	1	4		3		3		10	9	18	10	66		
Deaths	6	3	3		2	2	1	8	3	7	2	2		39	59.09
1888.															
Cases	9	2	4	3	2	2	6	13	20	23	177	142	403		
Deaths	5		3	3	6	1	1	5	8	9	15	47		103	25.55
1889.															
Cases	35	14	6	7	6	1		13	29	34	31	21	198		
Deaths	5	8	2	9	1	2	1	6	4	3	12	6		59	29.79
1890.															
Cases	12	5	11	7	4	1	4	7	13	18	9	9	100		
Deaths	4	3	6	5	2	2	1	3	3	2	3	5		39	39.00
1891.															
Cases	6	3	5	5	6	5	9	17	17	29	74	14	190		
Deaths	4	2	5	1	2	3	3	6	6	5	16	9		62	32.63
1892.															
Cases		4	13	14	5	6	10	23	20	19	18	12	144		
Deaths	8	5	2	3	5	2	4	2	3	6	7	4		51	35.42
1893.															
Cases	23	6	7	11	11	6	26	28	12	18	24	25	197		
Deaths	3	1	2	1	3	3	11	5	3	6	6	6		50	25.38
1894.															
Cases	50	29	30	13	8	11	12	30	25	21	20	9	258		
Deaths	14	7	5	7	6	4	7	3	4	5	6	2		70	27.13
1895.															
Cases	10	16	6	13	7	11	3	16	14	17	50	64	227		
Deaths		3	1	1	4	3	1	3	4	8	6	12		46	20.26
Totals.															
Cases	162	92	96	85	62	51	80	168	199	212	445	319	1,971		
Deaths	55	36	36	37	38	25	33	51	52	67	86	100		616	31.25

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With the exception of the epidemic presently to be mentioned there was less typhoid fever in the city than there had ever been in any previous year. Towards the last of November it was discovered that several cases of typhoid fever received milk from the same milkman, viz., A. E. Arnold, of Johnston. The matter was referred to the Secretary of the State Board of Health, who promptly investigated and found that Mr. Arnold kept no cows, but bought his milk from two farmers in the same town. On one of these farms there was no trace of anything which could cause the disease. On the other farm it was found that there had been two cases of typhoid, one of which had extended well into November. The same person took care of the sick and also of the milk. These facts were made public, and at the same time Mr. Arnold ceased taking milk from that farm. Shortly after another case developed on the farm and Mr. Arnold also was taken sick. But it is not believed that any more infected milk was brought into the city. In all there were thirty-one cases and three deaths in this city among persons who took milk from this supply. Mr. Arnold supplied about 100 customers, of whom about fifty must have had milk from the infected source. The rest of the cases of typhoid occurring in the city during this period obtained their milk from 42 milkmen. In only one instance besides the one in question did the same milkman supply more than two customers.

During the year there were twenty instances in which more than one person in a family was attacked. In six of these families the milk supply was from Arnold, so that all of the sick were probably through the milk exposed to the same infection. This leaves fourteen cases in which the disease may have spread from one person to another in the same family.

SMALL-POX.

On February 11, 1895, a suspicious case was reported from 552 Douglas avenue. The case was seen that day

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in consultation with the attending physician, and also on the next day in consultation with Drs. J. W. C. Ely and Charles H. Leonard. The case was considered to be one of small-pox, and the Fields Point hospital was made ready and the patient, together with her mother, was removed there on the 12th. The patient was a girl, seven years old, who had been vaccinated three years before, but showed no cicatrix. The case progressed favorably, and she was discharged cured.

DISINFECTION.

Disinfection after contagious disease in the city is not compulsory, and is only done at the request of the family. It is done by this department without charge. The following are the number of disinfections since 1888:

Year.	Scarlet Fever.	Diphtheria	Phthisis.	Cancer.	Small-Pox.	Miscellaneous.	Total.
1888....	.....	.....	.....	.....	.....	.....	180
1889....	.....	.....	.....	.....	.....	.....	92
1890....	.....	.....	.....	.....	.....	.....	93
1891....	.....	.....	.....	.....	.....	.....	132
1892....	101	28	.....	2	6	3	140
1893....	158	8	4	2	.....	1	173
1894....	331	56	1	.....	12	.....	400
1895....	555	188	1	.....	1	10	755
Total	1,145	280	6	4	19	14	1,468

Disinfection is done by carrying to the steam disinfector and there steaming all infected articles that can be so treated. In a considerable proportion of cases sulphur in large quantities is burned in the infected rooms, and the householder is instructed to thoroughly "clean house," using corrosive sublimate in all the water used for washing.

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VACCINATION.

During the year 1895 the number of persons vaccinated was 1,511. The only public vaccination has been at the City Hall, Saturday afternoons. Humanized virus only is employed. The number of transfers in 1895 was 32, making the total number of transfers since 1868, when an accurate record was begun, 544. The number of certificates of vaccination issued was 2,050. The following table gives the number of persons vaccinated and the number of certificates issued from 1856 to 1880, and during each year since that time:

Year.	Persons Vaccinated.	Certificates Issued.
1856-1880	24,142	32,585
1881	2,307	1,655
1882	1,694	1,690
1883	1,385	1,601
1884	1,137	2,725
1885	17,034	1,776
1886	625	1,856
1887	917	1,437
1888	894	1,676
1889	1,136	1,344
1890	1,438	1,765
1891	1,738	2,112
1892	2,440	2,407
1893	1,905	2,359
1894	3,086	2,809
1895	1,511	2,050
Total, 1856-1895	63,389	61,847

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Fewer persons were vaccinated in 1895 than in any year since 1890. There seems to be a growing tendency to object to vaccination.

QUARANTINE.

The signal officer at quarantine for the year was John S. Adamson, who performed the services in a very satisfactory manner.

The following is the number of vessels hailed by the signal officer:

1893 (from May 18)	98
1894	82
1895	204

The following is a list of the number of vessels boarded by the health officer and the ports from which they sailed:

	1893.	1894.	1895.
British Provinces	14	2	0
West Indies	11	14	18
Italy	1	2	2
Brunswick, Ga	3	0	0
South America	1	0	0
Total	30	18	20

SWILL.

During the year the swill has been collected by Messrs. A. H. and J. Barney, under contract with the city dated April 18, 1889. On the expiration of this contract, May 1, 1894, it was renewed for a period of five years from that date. The payment for the service is 15 1-2 cents per annum for each person in the city, the population of the city to be estimated for that purpose each year by the City

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Registrar. At this rate they were paid $1,989.17 each month during the year ending May 1, 1895, and $2,040.83 per month since that date.

The contractors continue to collect the swill in the same satisfactory manner in which they undertook the work. They employ in the business eighteen two-horse teams and one three-horse team.

The following are the number of complaints made at this office during the past eight years in regard to the collection of swill:

1887	329
1888	299
1889	231
1890	241
1891	294
1892	440
1893	397
1894	271
1895	331

NIGHT SOIL.

In accordance with the statute and rules of 1892 licenses are issued to engage in the business of removing the contents of privy vaults and cesspools. These licenses are for the current municipal year, and the fee for a license is $1.00. The number issued in 1892 was 32, in 1893 it was 28, in 1894 it was 22, and in 1895 it was 23.

NUISANCES.

During the year 422 complaints of nuisances were made at this office. Of these 245 were well founded, while 177 were not. In addition to these complaints 136 were received through the police, making 558 complaints received from the public during the year. A large number of these, however, had already received attention when the formal report reached this office. The nuisances abated during the year were as follows:

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Privy vaults full and offensive	215
Cesspools full and offensive	52
Defective vaults and cesspools	4
Uncovered vaults and cesspools	46
Cesspools and vaults leaking on to adjoining estates	3
No vault to privy	4
No cesspool on estate	2
Cesspools and vaults leaking into cellar	28
Defective waste and drain pipes	129
No traps	23
Filthy yards	392
Filthy water flowing into the street	16
Defective water closets	32
Filthy cellars	24
Filthy tenements	10
Stable manure removed	12

When a nuisance exists on any premises in the city, a letter is at once sent to the owner to abate it, and if he does not do it within a reasonable time the case is reported to the Board of Aldermen for action. In 1893 the Board of Aldermen issued 200 orders under form A, to abate nuisances, and 14 under form C, to vacate tenements, and 361 under form E, ordering persons to connect drainage with the sewer. When the board is not in session I have authority, under Chapter 495 of the Public Statutes, to issue orders to abate certain nuisances, and during the year four were issued from this office.

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INSPECTOR OF PROVISIONS.

The following is a summary of the work of the inspector of provisions for the last three years:

Number of Markets in the City.

Wards.	1893.	1894.	1895.
I	48	45	60
II	42	45	50
III	28	26	35
IV	34	29	33
V	28	31	34
VI	37	35	33
VII	20	19	25
VIII	41	39	45
IX	27	28	43
X	39	37	42
Total	344	334	400

	Total No. of inspections.	No. of times provisions were condemned.
1893	2,787	
1894	4,101	25
1895	4,393	50

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EXPENSES OF THE HEALTH DEPARTMENT.

The following were the expenses of the Health Department for the year ending Sept. 30, 1895:

Salary of Superintendent of Health	$2,000 00
Removal of swill	24,128 34
Board and treatment of persons affected with contagious diseases	3,780 17
Recording births, marriages and deaths	2,253 60
Men at dumping grounds	2,026 50
Medical inspector	1,200 00
Inspector of provisions	1,200 00
Disinfecting expenses	890 45
Sanitary inspectors	842 50
Serving notices	708 00
Collecting returns of births	581 85
Repairs on steam apparatus for disinfecting purposes	569 33
Building for disinfecting purposes at new city yard, as per resolution of the City Council, No. 133, series of 1895	439 00
Clerical assistance, as per resolution of the City Council, No. 745, series of 1893	436 50
Compensation to clergymen and physicians for reporting births, as per order of the Board of Aldermen, passed September 21, 1895	410 00
Vaccination expenses	384 50
Board of horse and carriage	312 88
Keeper at small-pox hospital, including supplies and cost of maintenance	275 38
Fees of Quarantine Sentinel	218 00
Telephone lines	186 75
Horse shoeing, repairs on vehicles, harnesses, etc	163 06
Supplies, laboratory apparatus, etc	162 40
Undertakers' fees reporting deaths	154 30
Bacteriological examinations	101 50
Ambulance repairs	94 52
Car fares	90 00
Exchange of typewriter	70 00
Horse and carriage hire	50 72
Medical attendance in small-pox cases	18 00
Geneological dictionary	10 00
Daily and Sunday Journal for City Registrar	8 00
Additional allowance for property destroyed, as per resolution of the City Council, No. 629, series of 1894	8 00
Vital Records of R. I., vol. 7	7 50
Special sanitary inspection	6 00
Cleaning out vaults, etc	6 00
Removing offensive matter	6 00
Posts for signs at dumping grounds	25
Total	$43,800 00

The amount appropriated for the fiscal year ending Sept. 30, 1896, was $43,000.

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The following is the estimate of the expenses of the Health Department for the year ending Sept. 30, 1896:

Collecting and removing swill	$26,000
Registration expenses	3,600
Salary Superintendent of Health	2,000
Salary sanitary inspectors	2,000
Care contagious diseases	4,000
Salary inspector of meat	1,200
Pay of men at dumps	2,000
Salary of medical inspector	1,200
Disinfections	1,500
Serving notices	600
Vaccination expenses	1,000
Horse hire, shoeing, etc	500
Bacteriological and chemical analysis	500
Clerk hire	500
Signal officer at quarantine	220
Car fare	100
Telephone	180
Contingencies	900
Total	$47,000

Respectfully submitted,

CHARLES V. CHAPIN,

Superintendent of Health.

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VITAL STATISTICS FROM SOME OF THE PRINCIPAL

CITIES.	Population.	Total Deaths.	Deaths per Thousand.	Deaths Under One Year.	Percentage of Whole Number of Deaths.	Deaths Under Five Years.	Percentage of Whole Number of Deaths.	Deaths from Phthisis.	Percentage of Whole Number of Deaths.
New York	1,879,195	43,420	23.15	11,267	25.94	18,221	41.96	5,205	11.98
Brooklyn, N. Y.	1,100,000	22,568	11.42	5,695	25.23	9,277	41.10	2,299	10.18
Boston, Mass.	501,083	11,329	22.60	2,580	22.77	3,935	34.73	1,349	11.90
San Francisco	330,000	5,914	17.92	965	16.31	284	4.80	1,049	17.73
Cleveland, O	325,000	5,167	15.80	1,484	28.72	2,074	40.12	454	8.78
Milwaukee, Wis	250,000	3,885	15.54	1,322	34.00	516	13.28	288	7.41
Jersey City	182,713	6,285	34.39			2,622	41.84	683	10.86
St. Paul, Minn	140,292	1,629	11.61	426	26.15	222	13.62	178	10.92
Columbus, O.	100,000	1,504	15.04	284	18.87	160	10.63	230	15.29
Richmond, Va	96,660	1,556	16.12	400	25.70	524	33.67	173	11.11
Lowell, Mass	84,359	1,857	22.01	566	30.47	788	42.43	158	8.40
Cambridge, Mass	81,519	1,500	18.40	317	21.13	512	34.13	181	12.06
Grand Rapids	80,000	1,106	13.82	209	18.89	307	27.75	130	11.75
Lynn, Mass	63,000	1,086	17.39	214	19.70	312	28.72	122	11.23
New Bedford, Mass	55,294	1,055	19.45	330	31.27	107	11.42	97	9.38
Somerville, Mass	52,200	838	16.05					91	10.87
Utica, N. Y.	50,000	898	17.96	168	18.70	212	23.74	114	12.69
Haverhill, Mass	30,209	521	17.24	125	23.99	171	32.82	67	12.66
Newton, Mass	27,590	448	16.23	95	21.20	39	8.70	39	8.70
Taunton, Mass	27,093	514	18.97	114	22.17	34	6.61	16	3.11
Newport, R. I.	20,000	349	17.45	67	19.19	90	25.78	43	12.32
Fall River	89,303	1,902	21.29	688	36.17	267	14.03	154	7.57
Oakland	60,000	736	12.26	118	16.03	47	6.52	110	14.94

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CITIES OF THE UNITED STATES FOR 1895.

Deaths from Typhoid Fever.	Percentage of Whole Number of Deaths.	Deaths from Scarlet Fever.	Percentage of Whole Number of Deaths.	Deaths from Diphtheria.	Percentage of Whole Number of Deaths.	Deaths from Small-pox.	Percentage of Whole Number of Deaths.	Deaths from Diarrheal Diseases.	Percentage of Whole Number of Deaths.	CITIES.
322	.75	468	1.07	1,634	3.76	10	.02	3,377	7.77	New York.
173	.76	124	.50	1,139	5.04	1	.003	2,200	9.74	Brooklyn, N. Y.
163	1.43	114	1.80	588	5.19			691	6.09	Boston, Mass.
107	1.00	1	.01	15	.25			231	3.90	San Francisco.
117	2.26	117	2.26	124	2.39	1	.01	612	11.84	Cleveland, O.
63	1.64	5	.12	112	2.88	30	.77	494	12.71	Milwaukee, Wis.
149	2.37	74	2.37	175	2.78			286	4.55	Jersey City.
38	2.33	3	.18	107	6.56			140	8.58	St. Paul, Minn.
56	3.72	18	1.13	76	5.05			106	7.04	Columbus, Ohio.
26	1.66	3	.19	9	1.57			139	8.93	Richmond, Va.
33	1.77	4	.21	53	2.85			247	13.30	Lowell, Mass.
12	.80	17	1.13	94	6.26			138	9.30	Cambridge, Mass.
25	2.26	6	.54	29	2.62			70	6.32	Grand Rapids
13	1.96	26	2.39	42	3.86			102	9.39	Lynn, Mass.
9	.85	5	.47	26	2.46			84	7.96	N. Bedford, Mass.
10	1.19	17	2.02	43	5.13			59	5.59	Somerville, Mass.
8	.88	1	.11	5	.55			63	7.12	Utica, N. Y.
8	1.53	6	1.15	6	1.15			43	8.25	Haverhill, Mass.
3	.67	1	.22	15	3.34			23	5.11	Newton, Mass.
				26	5.05			20	3.89	Taunton, Mass.
8	2.29	1	.28	5	1.43			23	6.69	Newport, R. I.
30	1.57	29	1.52	27				302	10.62	Fall River, Mass.
17	2.32	3	.40	3	.40			18	2.40	Oakland

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Summary of Deaths in Providence from Certain Important Diseases for Forty Years.

Year.	Population.	Whole number of deaths.	Deaths per Thousand.	Deaths under 1 Year.	Percentage of Whole No. of Deaths.	Deaths under 5 Years.	Percentage of Whole No. of Deaths.	Deaths from Phthisis.	Percentage of Whole No. of Deaths.	Deaths from Typhoid Fever.	Percentage of Whole No. of Deaths.	Deaths from Scarlet Fever.	Percentage of Whole No. of Deaths.	Deaths from Diphtheria.	Percentage of Whole No. of Deaths.	Deaths from Small-pox.	Percentage of Whole No. of Deaths.	Deaths from Diarrhœal Diseases.	Percentage of Whole No. of Deaths.	Year.
1856 to 1869	755,933	14,940	19.76	2,852	19.08	5,766	38.59	2,719	18.19	494	3.30	835	5.58	219	1.46	46	.30	1,801	12.05	1856 to 1869
1870	68,904	1,263	18.33	277	21.93	464	36.74	238	19.06	52	4.16	35	2.80	10	0.80	2	0.16	149	11.92	1870
1871	72,011	1,254	17.41	245	19.54	404	32.22	194	15.66	53	4.28	21	1.69	21	1.69	3	0.24	126	10.15	1871
1872	75,118	1,603	21.34	357	22.29	566	35.27	241	15.26	68	4.31	19	1.20	27	1.71	13	0.82	262	16.58	1872
1873	78,225	1,719	21.97	344	20.01	631	36.71	231	13.57	61	3.58	132	7.76	23	1.36	14	0.82	165	9.69	1873
1874	96,452	1,987	20.60	402	20.23	781	39.31	270	13.76	60	3.06	268	13.66	20	1.02	0	0	229	11.67	1874
1875	100,675	1,915	19.02	409	21.36	703	36.66	299	15.79	71	3.75	93	4.91	14	0.74	1	0.05	223	11.71	1875
1876	101,511	1,865	18.37	388	20.80	727	38.98	284	15.34	33	1.78	35	1.87	111	5.95	0	0	206	11.13	1876
1877	101,000	1,938	19.18	365	18.83	724	37.36	294	15.22	43	2.22	12	0.62	295	15.27	0	0	204	10.56	1877
1878	102,286	1,989	19.44	373	18.76	796	40.02	305	15.46	47	2.38	57	2.86	246	12.47	0	0	130	6.59	1878
1879	103,572	2,026	19.56	316	15.60	714	35.25	293	14.52	40	1.98	252	12.49	107	5.30	0	0	120	5.95	1879
1880	104,857	2,080	19.83	381	18.32	731	35.15	322	15.60	52	2.57	243	11.77	61	2.95	0	0	165	7.98	1880
1881	109,617	2,145	19.56	415	19.35	727	33.90	344	16.15	38	1.78	45	2.11	116	5.54	0	0	182	8.55	1881
1882	114,377	2,242	19.60	416	18.56	678	30.24	351	15.72	140	6.27	18	0.81	48	2.15	0	0	256	11.45	1882
1883	117,018	2,328	19.89	418	17.96	666	28.61	364	15.68	128	5.51	16	0.69	54	2.33	1	0.04	212	9.13	1883
1884	117,544	2,233	19.00	469	21.00	773	34.61	314	14.44	52	2.33	57	2.56	58	2.60	0	0	253	11.33	1884
1885	118,070	2,164	18.32	376	17.38	628	29.02	347	16.03	44	2.03	38	1.76	37	1.71	0	0	161	7.44	1885
1886	120,000	2,355	19.62	439	18.24	743	31.54	368	15.64	53	2.25	30	1.27	98	4.16	0	0	231	9.80	1886
1887	121,500	2,612	21.50	452	17.30	896	34.28	314	12.02	39	1.49	153	5.85	109	4.17	0	0	212	6.47	1887
1888	123,000	2,608	21.20	436	16.71	770	29.52	359	13.76	103	3.94	80	3.06	98	3.75	0	0	271	10.39	1888
1889	127,000	2,510	19.76	499	19.88	803	31.99	309	12.31	59	2.31	25	.99	97	3.86	0	0	232	9.24	1889
1890	132,146	2,877	21.77	636	22.10	966	33.57	385	13.38	39	1.35	8	.27	94	3.26	0	0	312	10.84	1890
1891	135,000	2,630	19.48	576	21.90	828	31.48	344	13.08	62	2.36	17	.64	48	1.82	0	0	231	8.78	1891
1892	138,000	2,964	21.48	639	21.56	900	30.36	333	11.23	51	1.72	37	1.25	39	1.32	3	0.10	344	11.61	1892
1893	150,000	3,139	20.92	686	21.85	1,039	33.09	325	10.35	50	1.59	97	3.09	46	1.46	0	0	309	9.48	1893
1894	153,000	2,896	18.92	648	22.37	934	32.25	331	11.42	70	2.41	56	1.93	46	1.58	2	.06	278	9.59	1894
1895	145,472	3,087	21.22	656	21.25	1,012	32.78	355	11.49	46	1.49	64	2.07	79	2.55	0	0	296	9.58	1895
Totals and Averages.		72,369	19.65	14,471	19.99	25,371	35.05	10,863	15.01	2,048	2.82	2,785	3.84	2,221	3.06	85	.11	7,560	10.44	Totals and Averages.

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STATISTICS OF THE CITY OF PROVIDENCE.

POPULATION BY CENSUS.

	June 1, 1890.	January 1, 1893.	June 1, 1895.
Ward I.	13,709	15,191	14,632
" II.	13,501	14,739	13,889
" III.	17,152	18,248	17,513
" IV.	8,573	9,644	8,291
" V.	12,428	13,630	13,484
" VI.	12,517	14,322	15,559
" VII.	11,007	13,257	13,088
" VIII.	12,015	13,940	13,389
" IX.	13,603	14,781	14,605
" X.	17,641	21,192	21,022
Total	132,146	148,944	145,472
Area, square miles	16.25		

ASSESSED VALUATION.

	1894.	1895.
Real estate	$126,463,800	$129,438,060 00
Personal estate	40,800,400	40,346,500 00
Total	$167,264,200	$169,784,560 00
Total amount of all tax	$2,676,227 20	$2,716,552 96

STREETS.

	1894.	1895.
Paved	27.4 miles	31.5 miles.
Curbed and built, but not paved	138.1 "	140.2 "
Received, but not built	35.2 "	32.7 "
Total	200.7 "	204.4 "
Miles of water pipes	284.76	295.958
Number of service pipes in use	18,152	18,763
Number of meters in use	13,153	13,993
Average daily consumption of water	9,904,434 gals	8,905,085 gals.
Miles of sewers	141.747 miles	149.589 miles.
Number of sewer connections	10,587	11,581

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REPORT

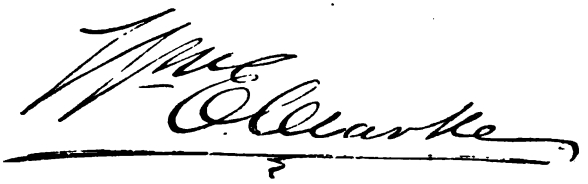
UPON

RECEIPTS AND EXPENDITURES

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In City Council, February 13, 1896.

Read, whereupon it is ordered that the same be received and printed.



City Clerk.

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REPORT.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF PROVIDENCE:

The Commissioners of the North Burial Ground make this their annual report of receipts and expenditures for the year ending December 31, 1895:

RECEIPTS.

Balance on hand Jan. 1, 1895		$2,586 38
From sales of lots	$4,299 23	
" improvement of lots	8,027 41	
" interments	2,693 75	
" rent of buildings	816 66	
" brick graves	1,927 00	
" tomb rent	542 95	
" certificates	35 00	
" sundries	172 53	
		$18,514 53
		$21,100 91

EXPENDITURES.

LABOR.

For improvement of lots	$4,199 90
" grading	1,918 89
" interments	1,825 00
" avenues	1,363 33
" salaries	2,499 11
Amount carried forward	$11,806 23

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Amount brought forward		$11,806 23

SUNDRY BILLS.

For water	$556 20	
" covering stones, bound stones, etc	218 45	
" brick, lime, cement, etc	323 90	
" grain, hay, feed, etc	347 66	
" manure and fertilizers	454 00	
" hardware, tools and seeds	189 40	
" painting, paints and oils	139 03	
" plumbing and repairs	79 79	
" lumber	53 27	
" carpenters' work	75 49	
" masons' work	5 12	
" freight	81 62	
" teaming	12 50	
" coal	118 00	
" blacksmithing and horseshoeing	92 03	
" rent of telephone	73 00	
" stationery, printing, etc	72 34	
" harness and repairs	86 40	
" carts and carriage repairs	82 07	
" boxes	17 25	
" addition to greenhouse	274 61	
" three water gates (water pipe extension)	33 00	
" lettering markers and repairing headstones	90 00	
" trees, shrubs, plants, etc	54 80	
" rubber hose and rubber boots	46 15	
" two carriage robes	13 00	
" ice	8 75	
" flower pots	6 00	
" keys, repairing locks and lawn mowers	31 65	
" sundries	12 73	
		$3,648 21
		$15,454 44

Paid commissioners of sinking funds five cents per square foot of land sold for year ending October 10, 1895	$302 22
Balance in city treasury	5,344 25
	$21,100 91

Inventory of property on hand, Sept 30, 1895	$3,466 63

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The average number of men employed during the year was seventeen.

Number of interments during the year was six hundred and forty-one.

Number entombed, sixty-four.

Number of foundations built was one hundred and sixty-six.

Number of brick graves built was ninety-five.

Number of slate graves built was one.

Number of private lots graded, forty-seven, containing 14,576 square feet.

Number of square feet of land graded and seeded down was 64,500.

Avenues made, 2,100 square feet.

Gutters paved, 310 square feet.

The amount of filling done during the year was 1476 cubic yards.

An addition to the greenhouse has been built during the year at a cost of $274.61.

Number of lots under perpetual care, 567.

Number of lots under annual care, 593.

Respectfully submitted for the commissioners of the North Burial Ground,

JOHN W. ANGELL,

Chairman.

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REPORT

UPON THE

RECEIPTS AND EXPENDITURES

OF THE INCOME FROM

TRUST FUNDS.

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TRUST FUNDS.

Report of the receipts and expenditures of income from the Trust Funds for the year ending December 31, 1895:

NAME OF FUND.	FUND.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Adams, John B.	$100 00	$4 75	$4 00	$3 50	$5 25
Adamson, Elizabeth J.	100 00	4 50	4 00	3 00	5 50
Albro, Silas W	75 00	.....	1 50	1 50	.....
Aldrich, Ralph W	75 00	3 44	3 00	2 75	3 69
Aldrich, David L.	500 00	38 00	20 00	12 00	46 00
Aldrich, Benjamin H. and Cyrus C.	150 00	5 00	6 00	7 00	4 00
Aldrich, Daniel G	250 00	1 25	10 00	8 00	3 25
Aldrich Gilbert S.	78 00	22	3 12	2 75	59
Alexander, Whitney	225 00	7 50	9 00	7 00	9 50
Allan, James	75 00	3 00	3 00	2 75	3 25
Allen, Zachariah	43 66	27 37	1 74	1 00	28 11
Allen Ebenezer	245 00	.....	4 90	4 50	40
Alfred, Ella J.	90 00	.....	.....	.....	.....
Amsbury, Heirs of Israel	300 00	38 18	12 00	9 00	41 18
Andres, Levings S.	90 00	.....	.....	.....	.....
Amount carried forward	$2,396 66	$133 21	$82 26	$64 75	$150 72

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Name of Fund.	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$2,336 66	$133 21	$82 26	$64 75	$150 72
Angell, Frank C. and Sarah L	178 00	.....	.....	.....	.....
Angell, Orra I	150 00	15 34	6 00	5 00	16 34
Angell, Welcome	300 00	36 75	12 00	8 00	40 75
Annis, Lydia	75 00	2 00	3 00	2 75	2 25
Anthony, Caroline M	100 00	4 00	4 00	3 50	4 50
Anthony, Charlotte Benson	125 00	9 62	5 00	4 00	10 62
Anthony, Charlotte M	75 00	2 00	3 00	2 75	2 25
Aplin, Stephen Arnold	100 00	7 88	4 00	4 00	7 88
Ardoene, Sally A	150 00	3 75	6 00	5 00	4 75
Arnold, Lemuel	190 00	9 20	7 60	5 00	11 80
Arnold Thomas F	175 00	.....	.....	.....	.....
Ashley, Lydia F	250 00	.....	2 50	2 50	.....
Atkinson, Edmund	77 00	3 57	3 08	2 75	3 90
Atkinson, Sarah F	130 00	12 73	5 20	4 00	13 93
Avery, Emily	92 00	.....	92	90	02
Ayers, George	90 00	.....	90	90	.....
Babcock, Darius and Almira M	75 00	2 00	3 00	2 75	2 25
Baker, Edwin L	113 00	6 07	4 52	4 00	6 59
Baker, Edgar	112 00	5 86	4 48	4 00	6 34
Baker, Elijah	100 00	4 50	4 00	3 00	5 50
Baker, Joseph	150 00	37	6 00	5 00	1 37
Balcom, Ferdinand	100 00	1 02	4 00	4 00	1 92
Barbour, George	140 00	4 65	5 60	4 50	5 75
Bardsley, J. E. and Dakin	90 00	.....	.....	.....	.....
Barstow, John	100 00	8 67	4 00	4 00	8 67
Amount carried forward	$5,633 66	$274 09	$181 06	$147 05	$308 10

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Name of Fund	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$5,633 66	$274 09	$181 06	$147 05	$308 10
Bartlett, Lois A	200 00	10 00	8 00	7 00	11 00
Barton, Thomas H	150 00	6 63	6 00	5 50	7 13
Beattie, John	125 00	19 82	5 00	3 00	21 82
Beattie, Susan	125 00	4 93	5 00	3 00	6 93
Beckwith, William C	400 00	42 00	16 00	10 00	48 00
Beckwith, Heir of Truman	160 00	.....	6 40	5 00	1 40
Bennett, Lysander	150 00	11 00	6 00	5 00	12 00
Bennett, Alice M	75 00	2 00	3 00	2 75	2 25
Bent, Elizabeth B	75 00	7 67	3 00	2 75	7 92
Bell, Barbara	90 00	2 25	3 60	3 00	2 85
Bicknall and Sessions	200 00	19 24	8 00	8 00	19 24
Bissell, Sarah C	100 00	8 20	4 00	4 00	8 20
Blackburn, Ella	77 00	2 51	3 08	2 75	2 84
Blair, John	75 00	37	3 00	2 75	62
Blanchard, Erastus E	150 00	.....	1 50	1 50	.....
Blanding, William B	200 00	5 50	8 00	5 00	8 50
Blease, John T. and William	120 00	3 00	4 80	4 00	3 80
Blunt, Anna M	75 00	2 00	3 00	2 75	2 25
Boms, Joseph C	75 00	4 25	3 00	2 75	4 50
Bond, Harriet S	165 00	8 40	6 60	5 00	10 00
Bork, Wilhelmina F	70 00	1 35	2 80	2 50	1 65
Bowen, Mary Demont	200 00	32 96	8 00	6 00	34 96
Bowen, Frank S	77 00	1 35	3 08	2 75	1 68
Boyden, Julius	125 00	5 00	5 00	4 00	6 00
Bragg, Mary C	150 00	15 33	6 00	5 00	16 33
Amount carried forward	$9,042 66	$489 85	$312 92	$252 80	$549 97

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Name of Fund.	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$2,336 66	$133 21	$82 26	$64 75	$150 72
Angell, Frank C. and Sarah L.	178 00	.....	.....	.....	.....
Angell, Orra I.	150 00	15 34	6 00	5 00	16 34
Angell, Welcome	300 00	36 75	12 00	8 00	40 75
Annis, Lydia	75 00	2 00	3 00	2 75	2 25
Anthony, Caroline M.	100 00	4 00	4 00	3 50	4 50
Anthony, Charlotte Benson.	125 00	9 62	5 00	4 00	10 62
Anthony, Charlotte M.	75 00	2 00	3 00	2 75	2 25
Aplin, Stephen Arnold	100 00	7 88	4 00	4 00	7 88
Ardoene, Sally A.	150 00	3 75	6 00	5 00	4 75
Arnold, Lemuel	190 00	9 20	7 60	5 00	11 80
Arnold Thomas F	175 00	.....	.....	.....	.....
Ashley, Lydia F.	250 00	.....	2 50	2 50	.....
Atkinson, Edmund	77 00	3 57	3 08	2 75	3 90
Atkinson, Sarah F.	130 00	12 73	5 20	4 00	13 93
Avery, Emily	92 00	.....	92	90	02
Ayers, George	90 00	.....	90	90	.....
Babcock, Darius and Almira M.	75 00	2 00	3 00	2 75	2 25
Baker, Edwin L.	113 00	6 07	4 52	4 00	6 59
Baker, Edgar	112 00	5 86	4 48	4 00	6 34
Baker, Elijah	100 00	4 50	4 00	3 00	5 50
Baker, Joseph	150 00	37	6 00	5 00	1 37
Balcom, Ferdinand	100 00	1 02	4 00	4 00	1 92
Barbour, George	140 00	4 65	5 60	4 50	5 75
Bardsley, J. E. and Dakin.	90 00	.....	.....	.....	.....
Barstow, John	100 00	8 67	4 00	4 00	8 67
Amount carried forward.	$5,633 66	$274 09	$181 06	$147 05	$308 10

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Name of Fund	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$5,633 66	$274 09	$181 06	$147 05	$308 10
Bartlett, Lois A	200 00	10 00	8 00	7 00	11 00
Barton, Thomas H	150 00	6 63	6 00	5 50	7 13
Beattie, John	125 00	19 82	5 00	3 00	21 82
Beattie, Susan	125 00	4 93	5 00	3 00	6 93
Beckwith, William C	400 00	42 00	16 00	10 00	48 00
Beckwith, Heir of Truman	160 00	.....	6 40	5 00	1 40
Bennett, Lysander	150 00	11 00	6 00	5 00	12 00
Bennett, Alice M	75 00	2 00	3 00	2 75	2 25
Bent, Elizabeth B	75 00	7 67	3 00	2 75	7 92
Bell, Barbara	90 00	2 25	3 60	3 00	2 85
Bicknall and Sessions	200 00	19 24	8 00	8 00	19 24
Bissell, Sarah C	100 00	8 20	4 00	4 00	8 20
Blackburn, Ella	77 00	2 51	3 08	2 75	2 84
Blair, John	75 00	37	3 00	2 75	62
Blanchard, Erastus E	150 00	.....	1 50	1 50	.....
Blanding, William B	200 00	5 50	8 00	5 00	8 50
Blease, John T. and William	120 00	3 00	4 80	4 00	3 80
Blunt, Anna M	75 00	2 00	3 00	2 75	2 25
Boms, Joseph C	75 00	4 25	3 00	2 75	4 50
Bond, Harriet S	165 00	8 40	6 60	5 00	10 00
Bork, Wilhelmina F	70 00	1 35	2 80	2 50	1 65
Bowen, Mary Demont	200 00	32 96	8 00	6 00	34 96
Bowen, Frank S	77 00	1 35	3 08	2 75	1 68
Boyden, Julius	125 00	5 00	5 00	4 00	6 00
Bragg, Mary C	150 00	15 33	6 00	5 00	16 33
Amount carried forward	$9,042 66	$489 85	$312 92	$252 80	$549 97

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NAME OF FUND.	FUND.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$2,336 66	$133 21	$82 26	$64 75	$150 72
Angell, Frank C. and Sarah L	178 00	.....	.....	.....	.....
Angell, Orra I	150 00	15 34	6 00	5 00	16 34
Angell, Welcome	300 00	36 75	12 00	8 00	40 75
Annis, Lydia	75 00	2 00	3 00	2 75	2 25
Anthony, Caroline M	100 00	4 00	4 00	3 50	4 50
Anthony, Charlotte Benson	125 00	9 62	5 00	4 00	10 62
Anthony, Charlotte M	75 00	2 00	3 00	2 75	2 25
Aplin, Stephen Arnold	100 00	7 88	4 00	4 00	7 88
Ardoene, Sally A	150 00	3 75	6 00	5 00	4 75
Arnold, Lemuel	190 00	9 20	7 60	5 00	11 80
Arnold Thomas F	175 00	.....	.....	.....	.....
Ashley, Lydia F	250 00	.....	2 50	2 50	.....
Atkinson, Edmund	77 00	3 57	3 08	2 75	3 90
Atkinson, Sarah F	130 00	12 73	5 20	4 00	13 93
Avery, Emily	92 00	.....	92	90	02
Ayers, George	90 00	.....	90	90	.....
Babcock, Darius and Almira M	75 00	2 00	3 00	2 75	2 25
Baker, Edwin L	113 00	6 07	4 52	4 00	6 59
Baker, Edgar	112 00	5 86	4 48	4 00	6 34
Baker, Elijah	100 00	4 50	4 00	3 00	5 50
Baker, Joseph	150 00	37	6 00	5 00	1 37
Balcom, Ferdinand	100 00	1 02	4 00	4 00	1 92
Barbour, George	140 00	4 65	5 60	4 50	5 75
Bardsley, J. E. and Dakin	90 00	.....	.....	.....	.....
Barstow, John	100 00	8 67	4 00	4 00	8 67
Amount carried forward	$5,633 66	$274 09	$181 06	$147 05	$308 10

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Name of Fund	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$5,633 66	$274 09	$181 06	$147 05	$308 10
Bartlett, Lois A	200 00	10 00	8 00	7 00	11 00
Barton, Thomas H	150 00	6 63	6 00	5 50	7 13
Beattie, John	125 00	19 82	5 00	3 00	21 82
Beattie, Susan	125 00	4 93	5 00	3 00	6 93
Beckwith, William C	400 00	42 00	16 00	10 00	48 00
Beckwith, Heir of Truman	160 00		6 40	5 00	1 40
Bennett, Lysander	150 00	11 00	6 00	5 00	12 00
Bennett, Alice M	75 00	2 00	3 00	2 75	2 25
Bent, Elizabeth B	75 00	7 67	3 00	2 75	7 92
Bell, Barbara	90 00	2 25	3 60	3 00	2 85
Bicknall and Sessions	200 00	19 24	8 00	8 00	19 24
Bissell, Sarah C	100 00	8 20	4 00	4 00	8 20
Blackburn, Ella	77 00	2 51	3 08	2 75	2 84
Blair, John	75 00	37	3 00	2 75	62
Blanchard, Erastus E	150 00		1 50	1 50	
Blanding, William B	200 00	5 50	8 00	5 00	8 50
Blease, John T. and William	120 00	3 00	4 80	4 00	3 80
Blunt, Anna M	75 00	2 00	3 00	2 75	2 25
Boms, Joseph C	75 00	4 25	3 00	2 75	4 50
Bond, Harriet S	165 00	8 40	6 60	5 00	10 00
Bork, Wilhelmina F	70 00	1 35	2 80	2 50	1 65
Bowen, Mary Demont	200 00	32 96	8 00	6 00	34 96
Bowen, Frank S	77 00	1 35	3 08	2 75	1 68
Boyden, Julius	125 00	5 00	5 00	4 00	6 00
Bragg, Mary C	150 00	15 33	6 00	5 00	16 33
Amount carried forward	$9,042 66	$489 85	$312 92	$252 80	$549 97

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Name of Fund.	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$9,042 66	$489 85	$312 92	$252 80	$549 97
Braxton, Annie D.	133 00	2 54	5 32	5 00	2 86
Breitenstein, Adolph	90 00	.....	.....	.....	.....
Briggs, Benjamin	75 00	4 05	3 00	2 75	4 30
Briggs, John W.	200 00	.....	4 00	4 00	.....
Brown, Heirs of Isaac	150 00	37	6 00	5 00	1 37
Brown, Benjamin	175 00	17 73	7 00	6 00	18 73
Brown, John Carter $1,000 00 / $1,000 00	2,000 00	264 05	80 00	40 00	304 05
Brown, Harriot $400 00 / $600 00	1,000 00	125 92	40 00	12 00	153 92
Brown, Elisha R.	225 00	7 50	9 00	8 00	8 50
Brown, Eli	150 00	5 00	6 00	5 00	6 00
Budlong, Mary Ann	75 00	5 25	3 00	2 75	5 50
Burgess, Alpheus	100 00	2 36	4 00	4 00	2 36
Burgess, Alexander	100 00	2 36	4 00	4 00	2 36
Burgess, William	120 00	8 60	4 80	4 00	9 40
Burley, Annie M.	75 00	37	3 00	2 75	62
Burlingame, Charles I. $75 00 / $75 00	150 00	13 84	6 00	5 00	14 84
Burlingame, Cyrus P.	75 00	2 25	3 00	2 75	2 50
Burns, Margaret C.	82 00	3 05	3 28	2 75	3 58
Burroughs, John G.	150 00	40 19	6 00	3 00	43 19
Burroughs, George W. S.	75 00	2 25	3 00	2 75	2 50
Burrows, Caleb G.	250 00	8 37	10 00	7 50	10 87
Burton, Joseph	100 00	75	4 00	3 50	1 25
Burton, Thomas A.	75 00	4 69	5 00	2 75	4 94
Butts, Lucy Ann	200 00	24 12	8 00	6 00	26 12
Calef, Cutting S.	200 00	38 96	8 00	6 00	40 96
Amount carried forward	$15,067 66	$1,074 42	$546 32	$400 05	$1,220 69

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Name of Fund.	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward.	$15,067 66	$1,074 42	$546 32	$400 05	$1,220 69
Calef, George C.	225 00	10 00	9 00	7 00	12 00
Campbell, John H.	75 00	2 50	3 00	2 75	2 75
Campbell, Angeline T.	100 00	.....	1 00	1 00	.....
Capron, Mary Ann.	100 00	5 50	4 00	3 50	6 00
Carlisle, Susan F.	200 00	40 96	8 00	6 00	42 96
Carpenter, Mary F.	75 00	3 44	3 00	2 75	3 69
Carpenter, Rosanna.	300 00	120 47	12 00	6 00	126 47
Cartwright, Melvin D.	125 00	62	5 00	4 00	1 62
Chapman, Frederick J.	75 00	37	3 00	2 75	62
Chapman, Rhodes B.	150 00	11 00	6 00	5 00	12 00
Chapman, Mary W.	175 00	3 75	7 00	5 00	5 75
Charles, George N.	75 00	1 62	3 00	2 75	1 87
Chatto, Thomas.	75 00	1 56	3 00	2 75	1 81
Cheney, Charles T.	75 00	5 44	3 00	2 75	5 69
Christensen, Albertina L.	75 00	3 25	3 00	2 75	3 50
Christie, Fannie.	100 00	12 06	4 00	3 00	13 06
Clark, Sterry.	300 00	37 34	12 00	10 00	39 34
Clark, John.	127 00	1 86	5 08	5 00	1 94
Clark, Henry C.	150 00	3 00	6 00	6 00	3 00
Clarke, Isaac W.	100 00	6 75	4 00	3 50	7 25
Clarke, Ella R.	75 00	.....	75	75	.....
Clegg, Charles D. N.	75 00	37	3 00	2 75	62
Clemens, Susan P.	100 00	6 60	4 00	4 00	6 60
Cobb and Staniels.	75 00	4 25	3 00	2 75	4 50
Coggeshall, Lydia A.	125 00	10 00	5 00	4 00	11 00
Amount carried forward.	$18,194 66	$1,367 13	$666 15	$498 55	$1,534 73

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Name of Fund.	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward.	$18,194 66	$1,367 13	$666 15	$498 55	$1,534 73
Coleman, Walter H	120 00	.....	1 20	1 20	
Colson, Raseltha M	90 00	.....	.....	.....	.....
Colvin, Earl	175 00	7 75	7 00	5 00	9 75
Colvin, Stephen S	195 00	1 87	7 80	7 00	2 67
Comstock, Amanda G	192 00	.....	.....	.....	.....
Congdon, Jane	50 00	1 24	2 00	2 00	1 24
Cooke, Lydia A	150 00	14 33	6 00	5 00	15 33
Cooney, Bartholomew	100 00	5 50	4 00	3 00	6 50
Coville, Elizabeth	200 00	98 00	8 00	6 00	100 00
Cowing, Martin K	150 00	11 75	6 00	5 00	12 75
Cowperthwait, Sarah A	150 00	6 50	6 00	5 00	7 50
Crain, John	200 00	47 68	8 00	7 00	48 68
Cranshaw, Daniel	60 00	4 52	2 40	2 00	4 92
Cranston, William A	165 00	1 12	6 60	5 50	2 22
Cranston, Heirs of William B	150 00	13 34	6 00	5 00	14 34
Crocker, George W	137 00	.....	.....	.....	.....
Crookes, Ellen	75 00	37	3 00	2 75	62
Crosby, Abby Burton	175 00	14 25	7 00	5 00	16 25
Crowley, David	150 00	8 50	6 00	5 00	9 50
Crump, Albert E	85 00	5 17	3 40	3 75	4 82
Cudworth, David	135 00	.....	1 35	1 35	.....
Cumerford, Geo. P. & Eliza J	90 00	.....	.....	.....	.....
Cunliff, Joseph	150 00	15 84	6 00	5 00	16 84
Dalrymple, Archibald	125 00	5 25	5 00	4 00	6 25
Danforth, Rebecca B	150 00	15 34	6 00	5 00	16 34
Amount carried forward..	$21,613 66	$1,645 45	$774 90	$589 10	$1,831 25

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Name of Fund.	Fund	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$21,613 66	$1,645 45	$774 90	$589 10	$1,831 25
Darnell, John W.	93 00	.....	93	90	03
Davenport, Sarah E.	75 00	4 69	3 00	2 75	4 94
Davis, William D.	200 00	9 88	8 00	8 00	9 88
Davis, Ithiel T.	200 00	28 13	8 00	6 00	30 13
Davis, Joseph S.	90 00	.....	.....	.....	.....
Davis, Sarah Jane $75.00 $75.00	150 00	12 43	6 00	5 00	13 43
Davis Willard.	85 00	4 73	3 40	2 75	5 38
Davis, J. W. F. and E. T.	150 00	4 00	6 00	5 00	5 00
Dearth, Abby T. and W. G.	200 00	71 68	8 00	8 00	74 68
Dexter, Linus W.	100 00	4 50	4 00	3 00	5 50
Dick, David.	90 00	.....	.....	.....	.....
Dodge, Heirs of Nehemiah $300.00 $300.00	600 00	59 25	24 00	10 00	73 25
Doe, Edgar J.	112 00	80	4 48	4 00	1 28
Doughty, Thomas.	75 00	2 75	3 00	2 75	3 00
Dowler, Charles.	130 00	3 30	5 20	5 00	3 50
Dronsfield, Joseph.	90 00	.....	.....	.....	.....
Dudley, Estella B. and Mary A.	83 00	57	3 32	3 00	89
Duncan, Alexander.	1,000 00	200 17	40 00	30 00	210 17
Durfee, Almira.	150 00	16 32	6 00	5 00	17 32
Dyson, Samuel and George Hemingway.	150 00	15 34	6 00	5 00	16 34
Earle, George.	100 00	27 26	4 00	4 00	27 26
Earle, William.	100 00	1 36	4 00	4 00	1 36
Earle and Taft.	500 00	15 31	20 00	20 00	15 31
Eastwood, Sarah Jane.	75 00	5 44	3 00	2 75	5 69
Eaton and Nason.	75 00	2 00	3 00	2 75	2 25

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Name of Fund.	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward.	$26,286 66	$2,138 36	$948 23	$728 75	$2,357 84
Eccles, Robert	150 00	2 59	6 00	6 00	2 59
Eddy, Henry B	150 00	7 00	6 00	4 50	8 50
Eddy, Matilda W	90 00	.....	1 80	1 80	.....
Eells, William L	150 00	11 75	6 00	5 00	12 75
Ellis, Mahala	125 00	4 25	5 00	4 50	4 75
Evans, William H	75 00	7 67	3 00	2 75	7 92
Farmer, Thomas	175 00	4 12	7 00	5 50	5 62
Farnham, Joseph E. C	108 00	.....	.....	.....	.....
Farrier, Thomas H	230 00	6 60	9 20	8 00	7 80
Ferguson Agnes	75 00	1 12	3 00	2 75	1 37
Field, Eleanor, heirs of	200 00	11 13	8 00	8 00	11 13
Fisher and McKay	75 00	1 12	3 00	2 75	1 37
Fisher, Charles L	115 00	.....	.....	.....	.....
Fitzgerald, Diana	117 00	.....	1 17	1 00	17
Fletcher Joseph,	200 00	30 86	8 00	7 00	31 86
Fluhrer, John C	150 00	9 82	6 00	6 00	9 82
Fogg, Ezra D	250 00	.....	5 00	5 00	.....
Franceville and Merewether	230 00	20 65	9 20	7 50	22 35
French, S. E. and H. S	50 00	2 00	2 00	1 75	2 25
French, Aaron	125 00	3 37	5 00	4 00	4 37
Froehley, Christian	65 00	.....	1 30	1 30	.....
Gaffett, Freelove F	125 00	3 37	5 00	4 00	4 37
Gammell and Russell	1,000 00	249 62	40 00	11 50	278 12
Gamwell, Charles A	84 00	7 51	3 36	3 00	7 87
Gardiner, Elizabeth E	100 00	3 62	4 00	4 00	3 62
Amount carried forward.	$30,500 66	$2,526 53	$1,096 26	$836 35	$2,786 44

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Name of Fund.	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$30,500 00	$2,526 53	$1,096 26	$836 35	$2,786 44
Gardiner, Harriet M.	140 00	24 83	5 60	4 00	26 43
Gartside, Alice	240 00	25 55	9 60	8 00	27 15
Gibson, Racilla	107 00				
Gilbert, Daniel W.	150 00	11 75	6 00	5 00	12 75
Gilmore, Joseph F.	200 00	9 00	8 00	5 00	12 00
Gladding, Rebecca M.	100 00	5 28	4 00	4 00	5 28
Gladding, Heirs of John J.	150 00				
Gladding, Mahoney & Jillson	450 00	73 02	18 00	9 00	82 02
Glover, Mary J.	80 00				
Goddard, Charlotte R.	500 00	62 81	20 00	10 00	72 81
Goddard, Isaac	175 00				
Gorham, Jabez	600 00	164 76	24 00	20 00	168 76
Gorham, Marcy	150 00	16 32	6 00	5 00	17 32
Gorton, Fuller, Baker & Boyden	400 00	12 44	16 00	16 00	12 44
Gorton, Burroughs	144 00				
Goodacre, Mary	100 00	12 68	4 00	5 00	11 68
Gould, George W,	120 00		4 80	4 00	80
Graham, Joseph M.	90 00				
Granger, Abraham H.	75 00	7 42	3 00	2 75	7 67
Gray, Joshua	270 00	5 50	10 80	8 00	8 30
Greene, Angeline M.	136 00	3 20	5 44	4 50	4 14
Greene, Clark	90 00				
Greene, William H.	400 00	17 00	16 00	13 00	20 00
Greene, William F.	150 00	10 69	6 00	5 00	11 69
Gregson, Charles	150 00	2 50	6 00	5 00	3 50
Amount carried forward	$35,667 66	$2,991 28	$1,269 50	$969 60	$3,291 18

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Name of Fund.	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward.	$35,667 66	$2,991 28	$1,269 50	$969 60	$3,291 18
Greenwood & Curtis	150 00	8 97	6 00	6 00	8 97
Grimshaw, Flora F	127 00	.....	.....	.....	.....
Gross, Thomas J. A	150 00	3 75	6 00	5 00	4 75
Gudgeon, William H	125 00	62	5 00	4 00	1 62
Hall, Edward L. & George	75 00	.....	3 00	2 75	25
Hall, Martha N	400 00	80 95	16 00	12 00	84 95
Hall, Charles	78 00	1 62	3 12	2 75	1 99
Hammond & Pike	150 00	13 97	6 00	5 00	14 97
Hancock, Maria	100 00	.....	3 00	2 75	25
Hardy, Harriet E	75 00	37	3 00	2 75	62
Harrington, J. C	150 00	18 26	6 00	5 00	19 26
Harris, Avis L	600 00	65 37	24 00	20 00	69 37
Harris, Nathaniel Cushing	150 00	15 33	6 00	5 00	16 33
Harris, Andrew	152 00	3 90	6 08	5 00	4 98
Harris, Edward A	127 00	92	5 08	5 00	1 00
Hartshorn, Joseph C	300 00	17 00	12 00	8 00	21 00
Haswell, Henry V	90 00	.....	.....	.....	.....
Hatten, Laura J	90 00	.....	.....	.....	.....
Haven & Bullock	200 00	25 04	8 00	6 00	27 04
Hawkins, Samuel	100 00	15 90	4 00	3 50	16 40
Hawkins, Albert P	150 00	14 34	6 00	5 00	15 34
Hawkins, Alexander	150 00	2 75	6 00	5 00	3 75
Hawkins, Eldora	116 00	.....	4 64	4 00	64
Hayden, Amanda	90 00	.....	.....	.....	.....
Hayward, Sarah E	75 00	2 00	3 00	2 75	2 25
Amount carried forward..	$39,637 66	$3,282 34	$1,411 42	$1,086 85	$3,606 91

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Name of Fund	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$39,637 66	$3,282 34	$1,411 42	$1,086 85	$3,606 91
Hayward, Lyman	85 00	5 24	3 40	2 75	5 89
Healy, James S	200 00	6 50	8 00	5 00	9 50
Hedly, Thomas W	175 00	11 31	7 00	6 00	12 31
Hearn, Mary A	85 00	.....	1 70	1 70	.....
Heathcote, William L	135 00	5 45	5 40	4 50	6 35
Henry, George	170 00	1 25	6 80	5 50	2 55
Heym, Mary A. E	75 00	1 12	3 00	2 75	1 37
Hidden, Heirs of James C	75 00	3 44	3 00	2 75	3 69
Hill, John V	225 00	9 13	9 00	8 00	10 13
Hitchen, Elizabeth	50 00	2 79	2 00	2 00	2 79
Hobbs, Abbie P	75 00	.....	3 00	2 75	25
Hodges, Almond D	100 00	22 01	4 00	4 00	22 01
Hodges, Abbie A	200 00	.....	4 00	4 00	.....
Holdgate, Sarah E	75 00	3 25	3 00	2 75	3 50
Holdgate, James	95 00	2 03	3 80	3 00	2 83
Holland, Horace B	75 00	1 62	3 00	2 75	1 87
Holmes, George B	180 00	10 00	7 20	6 50	11 20
Holroyd, James M	375 00	73 34	15 00	7 50	80 34
Hopkins, Emily A	75 00	6 47	3 00	2 75	6 72
Horton, Francis A	42 00	.....	.....	.....	.....
Houston, John	75 00	4 05	3 00	2 75	4 30
Hoxie, Edward P	72 00	55	2 88	2 50	93
Hughes, William	75 00	18	3 00	2 75	43
Hull, Charles F	144 00	.....	.....	.....	.....
Hurlbutt, Charles	90 00	.....	90	90	.....
Amount carried forward	$42,660 66	$3452 07	$1,516 50	$1,172 70	$3,795 87

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NAME OF FUND.	FUND.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$42,660 66	$3,452 07	$1,516 50	$1,172 70	$3,795 87
Hutchinson, Thomas	75 00	1 43	3 00	2 75	1 68
Irons, Charlotte	200 00	26 13	8 00	6 00	28 13
Irons, Phebe J	110 00	3 28	4 76	4 00	4 04
Irving, John A	100 00	.....	.....	.....	.....
James, Catherine	250 00	20 79	10 00	9 00	21 79
Jenkes, Nathan C	150 00	2 87	6 00	5 00	3 87
Jerauld, John R	50 00	1 50	2 00	1 75	1 75
Jillson, Lorenzo V	100 00	4 50	4 00	3 00	5 50
Johnson, Freeborn	150 00	17 28	6 00	5 00	18 28
Jones & Bancroft, $75 00 / $75 00	150 00	2 87	6 00	5 00	3 87
Kay John	75 00	1 43	3 00	2 75	1 68
Keller, Conrad & Bradley M. Graffam	110 00	12 67	5 60	5 00	13 27
Kelly & Pitcher	150 00	.....	6 00	5 00	1 00
Kenyon, William	75 00	7 42	3 00	2 75	7 67
Kenyon, James S	250 00	8 37	10 00	7 50	10 87
Kershaw, George	125 00	.....	.....	.....	.....
Kilmer, George T	77 00	.....	1 54	1 50	04
Kilvert, Samuel W	125 00	7 06	5 00	5 00	7 06
Kirkland, George	120 00	3 90	4 80	4 00	4 70
Knight, Thomas M	100 00	3 25	4 00	4 00	3 25
Knowles, Ann Smith	100 00	6 25	4 00	3 50	6 75
Knowlton, George H	75 00	5 25	3 00	2 75	5 50
Law & Kennon	175 00	5 80	7 00	5 00	7 80
Lawton Eugene	75 00	1 56	3 00	2 75	1 81
Lee, Robert H	300 00	36 93	12 00	7 00	41 93
Amount carried forward	$45,966 66	$3,632 61	$1,638 20	$1,272 70	$3,998 11

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NAME OF FUND.	FUND.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward.	$45,966 66	$3,632 61	$1,638 20	$1,272 70	$3,998 11
Lee, Nancy M and Oscar F.	150 00	5 00	6 00	5 00	6 00
Lees, Mary	75 00	5 44	3 00	2 75	5 69
Lester, Lucy J	75 00	3 44	3 00	2 75	3 69
Leveck, Louis	150 00	5 50	6 00	5 00	6 50
Libby, George R	90 00	.....	.....	.....	.....
Lippitt, Patience	175 00	7 75	7 00	5 00	9 75
Locke, L. A. and S. M	75 00	1 43	3 00	2 75	1 68
Lovett, Harriet N	125 00	8 87	5 00	4 50	9 37
Lovett, Harriet M. & Edward	150 00	11 75	6 00	5 00	12 75
Luft, Marie E	150 00	14 34	6 00	5 00	15 34
Luscumb, Arthur P	65 00	.....	1 30	1 30	.....
Lyon, Edward S	1,000 00	281 62	40 00	18 00	303 62
Lyon, Caroline F	410 00	2 25	16 40	12 00	6 65
Mabbett, Elizabeth	75 00	6 14	3 00	2 75	6 39
MacGregor, Andrew	75 00	.....	1 50	1 50	.....
Mackintosh, Thomas C	75 00	1 25	3 00	2 75	1 50
Major, James	100 00	6 32	4 00	4 00	6 32
Makepeace, Caroline E	150 00	12 34	6 00	5 00	13 34
Maker, Amos and A. A. Chatman	90 00	8 41	3 60	3 00	9 01
Man, Heirs of Aaron	325 00	.....	.....	.....	.....
Manchester, William A	75 00	2 50	3 00	2 75	2 75
Manton, Amey	175 00	9 00	7 00	5 00	11 00
Martin, Horace	100 00	1 44	4 00	4 00	1 44
Martin, Mary	69 00	10 56	2 76	2 00	11 32
Martin, Mary	75 00	3 00	3 00	2 75	3 25

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Name of Fund.	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward.	$50,040 66	$4,040 96	$1,781 76	$1,377 25	$4,445 47
Martin, Elhanan	100 00	.....	1 00	1 00	.....
Martin, Susan A	75 00	.....	1 50	1 50	.....
Marr, Edward	80 00	2 30	3 20	2 75	2 75
Marshall, Christie J	75 00	1 12	3 00	2 75	1 37
Mason, Obadiah	150 00	10 59	6 00	6 00	10 59
Mather, John E. & William H	75 00	2 75	3 00	2 75	3 00
Mathewson, George G	150 00	9 75	6 00	5 00	10 75
McCaslin, Diana	135 00	4 10	5 40	4 50	5 00
McKay, John G	143 00	.....	.....	.....	.....
McLaughlin, Charles C	75 00	2 00	3 00	2 75	2 25
McLees, Archibald	117 00	2 77	4 68	4 00	3 45
McKnight, Sidney	50 00	2 66	2 00	2 00	2 66
McPherson, Elizabeth C	75 00	18	3 00	2 75	43
McTwiggan, James	100 00	6 25	4 00	3 50	6 75
Merrill, Ann E	140 00	24 83	5 60	4 00	26 43
Michon, Lydia J	75 00	2 00	3 00	2 75	2 25
Miller, Barton	500 00	2 50	20 00	12 00	10 50
Millett, Thomas A	200 00	19 84	8 00	7 50	20 34
Mills, Abraham	75 00	1 25	3 00	2 75	1 50
Mitchell, James	150 00	15 21	6 00	5 00	16 21
Moffitt, Susan	175 00	15 98	7 00	6 00	16 98
Monroe, George G	128 00	4 64	5 12	5 00	4 76
Morris, Rachel	100 00	50	4 00	3 00	1 50
Moulton, Sarah O	75 00	2 25	3 00	2 75	2 50
Moultrop, Henry	150 00	8 75	6 00	5 00	9 75
Amount carried forward.	$53,208 66	$4,183 18	$1,898 26	$1,474 25	$4,607 19

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Name of Fund.	Fund	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$53,208 66	$4,183 18	$1,898 26	$1,474 25	$4,607 19
Mountney, Isabella A.	75 00	1 62	3 00	2 75	1 87
Mowry, Erastus R. $125 00 / $25 00	150 00	10 00	6 00	4 00	12 00
Mulcahy, Charles M.	75 00	2 00	3 00	2 75	2 25
Mumford, James.	100 00	5 10	4 00	4 00	5 10
Munroe, Jacob F.	200 00	11 00	8 00	7 00	12 00
Munroe, William W.	140 00	.....	.....	.....	.....
Murr, Jacob S.	77 00	42	3 08	2 75	75
Myers, Himan G.	75 00	1 62	3 00	2 75	1 87
Nash, Charles H.	100 00	.....	.....	.....	.....
Natter & Bentz.	75 00	1 62	3 00	2 75	1 87
Naylor, Joseph W.	150 00	17 89	6 00	5 00	18 89
Newcomb, Mary Low.	100 00	2 44	4 00	4 00	2 44
Newell, Emerson & Delilah A.	75 00	2 00	3 00	2 75	2 25
Nichols, Marcellia.	200 00	15 86	8 00	8 00	15 86
Nichols, Caroline H.	75 00	2 50	3 00	2 75	2 75
Nichols, William H.	75 00	2 50	3 00	2 75	2 75
Nightingale, George C.	1,000 00	8 50	40 00	34 00	14 50
Norris, Annie M.	130 00	3 65	5 20	5 00	3 85
Norton, Samuel W.	75 00	37	3 00	2 75	62
Ogden, William.	115 00	5 07	4 60	4 00	5 67
Ogden, Henry.	142 00	4 37	5 68	5 00	5 05
Ogg, George S.	75 00	.....	1 50	1 50	.....
Oliver, Eliza A.	100 00	50	4 60	3 50	1 00
Olney, Stephen T.	100 00	1 38	4 00	4 00	1 38
Olney, Waity	150 00	9 37	6 00	5 00	10 37
Amount carried forward	$56,837 66	$4,292 96	$2,032 32	$1,593 00	$4,732 28

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Name of Fund.	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$56,837 66	$4,292 96	$2,032 32	$1,593 00	$4,732 28
Olney, Ruth F.	125 00	6 75	5 00	3 00	8 75
Ormiston, Abbie E.	75 00	3 87	3 00	2 75	4 12
O'Rourke, Mary A.	125 00	10 00	5 00	4 00	11 00
Orrell, Servilia M.	175 00	.....	.....	.....	.....
Page, Albert W.	200 00	2 50	8 00	5 00	5 50
Paisley, William H.	75 00	7 68	3 00	2 75	7 93
Parker, Quincy.	150 00	16 83	6 00	5 00	17 83
Pearce, Eliza J.	100 00	3 50	4 00	3 00	4 50
Peck, George B. jr.	250 00	30 90	10 00	8 00	32 90
Peck, Rufus A.	150 00	18 53	6 00	5 00	19 53
Peck, Mary E.	75 00	7 16	3 00	2 75	7 41
Peck, Delilah B. & I. B. Congdon.	77 00	2 51	3 08	2 75	2 84
Peckenham, Jane.	136 00	4 88	5 44	5 00	5 32
Penniman, M. A. & A. Alexander.	450 00	57 03	18 00	14 00	61 03
Perry, Cornelia E.	60 00	1 00	2 40	2 00	1 40
Perry, Diadama F.	40 00	.....	40	40	.....
Petschke, Annie & Julius P.	120 00	.....	.....	.....	.....
Pettey, Daniel.	100 00	1 62	4 00	4 00	1 62
Pettey, David W.	150 00	3 75	6 00	5 00	4 75
Petty & Ennis.	125 00	4 75	5 00	4 00	5 75
Pettis, Gardner B.	200 00	26 34	8 00	7 00	27 34
Pettis, Rebecca.	150 00	8 12	6 00	5 00	9 12
Phinney, Henrietta E.	90 00	4 40	3 60	3 00	5 00
Pick, William	125 00	5 25	5 00	4 00	6 25
Pidge, Joseph, Benj. & C. W.	200 00	50	8 00	5 00	3 50
Amount carried forward	$60,360 66	$4,520 83	$2,160 24	$1,695 40	$4,985 67

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Name of Fund.	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$60,360 66	$4,520 83	$2,160 24	$1,695 40	$4,985 67
Pierce, Esther H. and Almira F	500 00	95 81	20 00	12 00	103 81
Pierce, Margaret R	75 00	7 42	3 00	2 75	7 67
Pike, Asa and William H	175 00	16 12	7 00	5 00	18 12
Place, William H	125 00	4 25	5 00	4 00	5 25
Polsey, Alanson	150 00	.....	6 00	5 00	1 00
Pope, William R	150 00	16 96	6 00	5 00	17 96
Pope, William	125 00	9 89	5 00	4 50	10 39
Potter, Ferdinand	360 00	19 15	14 40	13 00	20 55
Potter, Joseph	125 00	6 00	5 00	4 00	7 00
Potter, J. R. and D. F	150 00	.....	6 00	5 00	1 00
Prew, David	75 00	7 41	3 00	2 75	7 66
Pritchard, James K	75 00	3 00	3 00	2 75	3 25
Randall, Stephen	100 00	17 59	4 00	4 00	17 59
Randall and Broadhurst	105 00	5 53	4 20	4 00	5 73
Randall, Hannah M	200 00	10 00	8 00	6 00	12 00
Rawcliffe Emanuel	150 00	17 19	6 00	5 00	18 19
Rebholtz, Esther D	75 00	37	3 00	2 75	62
Reisman, Catherine	77 00	21	3 08	2 75	54
Richmond, Frank E	150 00	10 00	6 00	4 00	12 00
Ritchie, John	75 00	.....	1 50	1 50	.....
Robinson, Jane E	75 00	2 25	3 00	2 75	2 50
Robinson, William S	90 00	.....	.....	.....	.....
Rowan, John	150 00	.....	3 00	3 00	.....
Russell, Mary	115 00	2 62	4 60	4 00	3 22
Sabin, James H	100 00	6 38	4 00	4 00	6 38
Amount carried forward	$63,907 66	$4,778 98	$2,294 02	$1,804 90	$5,268 10

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Name of Fund.	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward.	$63,907 66	$4,778 98	$2,294 02	$1,804 90	$5,268 10
Sabin, Heirs of Hezekiah...	300 00	3 25	12 00	8 00	7 25
Salisbury, Eliza W.....	100 00	13 60	4 00	3 00	14 60
Salisbury, Stephen P.....	125 00	4 00	5 00	4 50	4 50
Salisbury, James	300 00	17 00	12 00	8 00	21 00
Salisbury, Ellen A.....	50 00	1 25	2 00	1 75	1 50
Salisbury, Catherine H.....	165 00	12 26	6 60	6 00	12 86
Sanders, John.....	150 00	6 50	6 00	5 00	7 50
Sayles, Margaret.....	92 00	.....	.....	.....	.....
Sayres, Susan A.....	150 00	.....	3 00	3 00	.....
Schaffer, Evelyn A.....	127 00	2 32	5 08	5 00	2 40
Schaffer, Elizabeth.....	150 00	37	6 00	5 00	1 37
Schmid, John M.....	375 00	50 31	15 00	10 00	55 31
Schneider, John G..	75 00	18	3 00	2 75	43
Schroder, William	77 00	2 99	3 08	2 75	3 32
Schultz, Gustavus A.....	75 00	3 00	3 00	2 75	3 25
Scott, Mary E.....	75 00	4 06	3 00	2 75	4 31
Seagraves, Harriet.....	125 00	6 94	5 00	5 00	6 94
Searles, Kate H.....	90 00	87	3 60	3 00	1 47
Sessions, Thomas.....	100 00	11 31	4 00	3 00	12 31
Shalling, F. G. & W. E....	116 00	5 22	4 64	4 00	5 86
Shaw, Anna B	100 00	3 75	4 00	3 00	4 75
Shay, John N.....	100 00	7 20	4 00	4 00	7 20
Sheldon, Mary Jane.....	550 00	396 00	50 00	10 00	436 00
Sheldon, Frank P.....	72 00	7 02	2 88	2 50	7 40
Sheldon, Heirs of Daniel...	500 00	12 75	20 00	7 50	25 25
Amount carried forward..	$68.046 66	$5,351 13	$2,480 90	$1,917 15	$5,914 88

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NAME OF FUND	FUND.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$68,046 66	$5,351 13	$2,480 90	$1,917 15	$5,914 88
Sherman, William D., Adm'r	100 00	2 44	4 00	4 00	2 44
Sherman, George J	100 00	5 55	1 20	1 00	5 75
Sherman, Mary A	100 00	7 56	4 00	4 00	7 56
Sherman, Alfred E	150 00	9 75	6 00	5 00	10 75
Sherman, Edward W	102 00	2 74	4 08	3 50	3 32
Sherman & Davis	42 00	1 04	1 68	1 50	1 22
Sherman, George J	60 00	.....	4 00	4 00	.....
Sherman, Peleg B	150 00	.....	3 00	3 00	.....
Sibbley & Hafermalz	100 00	1 75	4 00	3 00	2 75
Sibbley, Heirs of Rodney	150 00	.....	.....	.....	.....
Simmons, William Henry	100 00	7 88	4 00	4 00	7 88
Slocum, Charles E	120 00	.....	2 40	2 40	.....
Smart, Harriet A	75 00	1 43	3 00	2 75	1 68
Smith, Elisha	300 00	35 17	12 00	26 00	21 17
Smith, Hudson	75 00	5 69	3 00	2 75	5 94
Smith, William S	75 00	5 69	3 00	2 75	5 94
Smith, Alfred & Sidney	150 00	11 37	6 00	5 00	12 37
Smith, C. B. & H. D	100 00	9 00	4 00	3 50	9 50
Smith, James A	150 00	9 37	6 00	5 00	10 37
Smith, Caroline P	120 00	7 10	4 80	4 00	7 90
Smith, Roger	75 00	4 69	3 00	2 75	4 94
Smith, James	175 00	9 00	7 00	5 00	11 00
Smith, Evelyn B	75 00	2 50	3 00	2 75	2 75
Smith, Asenath	75 00	.....	75	75	.....
Smith, Edgar B	90 00	.....	.....	.....	.....
Amount carried forward	$70,855 66	$5,490 85	$2,574 81	$2,015 55	$6,050 11

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Name of Fund.	Fund.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$70,855 66	$5,490 85	$2,574 81	$2,015 55	$6,050 11
Snow, George W.	250 00	10 45	10 00	9 00	11 45
Snow, Amos	250 00	12 45	10 00	9 00	13 45
Snow, Margaret W.	120 00	3 20	4 80	4 50	3 50
Snow, Augustus F.	42 00	.....	42	40	02
Sowle, Mary A	150 00	14 33	6 00	5 00	15 33
Spencer, John	90 00	.....	.....	.....	.....
Spencer, John E	90 00	.....	.....	.....	.....
Sperry, H. G. and A. G. Pies	185 00	12 86	7 40	6 00	14 26
Sperry, Karl	75 00	3 88	3 00	2 75	4 13
Stade, Catherine E.	128 00	5 51	5 12	4 50	6 13
Stanley, William	150 00	8 50	6 00	5 00	9 50
Stanley, Oliver C.	125 00	7 19	5 00	4 00	8 19
Steere, Mary	140 00	12 92	5 60	5 00	13 52
Steere, Mary A.	150 00	7 25	6 00	5 00	8 25
Steere, Jonah.	500 00	12 75	20 00	6 00	26 75
Steere, Walter K.	154 00	.....	3 08	3 00	08
Steere, George A.	92 00	.....	.....	.....	.....
Stevens, Albert H.	57 00	.....	1 14	1 00	14
Stevens, Eugene and C. C. Wood	75 00	.....	1 50	1 50	.....
Stewart, Heirs of Thomas L.	125 00	1 68	5 00	4 00	2 68
Stone, Lemuel M. E.	215 00	.....	.....	.....	.....
Sullivan, Cornelius	500 00	133 40	20 00	10 00	143 40
Swan & Cooke	150 00	.....	1 50	1 50	.....
Sweeney, Sophia W.	170 00	7 60	6 80	6 00	8 40
Sweet, Menzies	150 00	8 21	6 00	6 00	8 21
Amount carried forward	$74,988 66	$5,753 03	$2,709 17	$2,114 70	$6,347 50

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NAME OF FUND.	FUND.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward.	$74,988 66	$5,753 03	$2,709 17	$2,114 70	$6,347 50
Sweet, Silas A.	140 00	12 67	5 60	5 00	13 27
Taft, Sweeting & Chloe.	200 00	9 00	8 00	6 00	11 00
Talcott, Walter O.	150 00	4 00	6 00	5 00	5 00
Tattersall, Mary.	130 00	3 25	5 20	4 50	3 95
Taylor, Peter C.	128 00	.....	2 56	2 50	06
Taylor, Clara E.	50 00	1 25	2 00	1 75	1 50
Temple, Timothy H.	75 00	5 33	3 00	3 00	5 33
Thayer, Horace.	150 00	1 62	6 00	5 00	2 62
Thompson, James.	75 00	37	3 00	2 75	62
Thornton, A. A. & J. L.	90 00	3 10	3 60	3 00	3 70
Thurber, Edward S.	100 00	5 42	4 00	4 00	5 42
Thurber, Dexter, $\$^{150}_{50}$ (a)	200 00	11 54	8 00	7 00	12 54
Thurber, William H.	150 00	12 65	6 00	5 00	13 65
Thurber, Heirs of Edmund.	150 00	.....	6 00	4 50	1 50
Thurber, Emma.	125 00	.....	1 25	1 25	.....
Thurston, Robert H.	100 00	6 94	4 00	4 00	6 94
Thurston, Mattie Ann.	75 00	3 25	3 00	2 75	3 50
Tiffany, Henry W. and Amey K.	125 00	6 63	5 00	4 00	7 63
Tilley, William J.	300 00	48 18	12 00	7 50	52 68
Tillinghast, Heirs of James.	100 00	22 81	4 00	4 00	22 81
Torrey, Moses Eddy.	150 00	10 00	6 00	4 00	12 00
Totten, Nathaniel G.	150 00	2 50	6 00	5 00	3 50
Tourtellot, J. E. & J. M.	150 00	6 00	6 00	5 00	7 00
Towne, Aaron.	190 00	15 45	7 60	6 00	17 05
Toye, John.	110 00	.....	1 10	1 10	.....
Amount carried forward.	$78,351 66	$5,944 99	$2,834 08	$2,218 30	$6,560 77

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NAME OF FUND.	FUND.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward.	$78,351 66	$5,944 99	$2,834 08	$2,218 30	$6,560 77
Trimble, William	75 00	1 62	3 00	2 75	1 87
Tucker, Amey A	400 00	44 50	16 00	14 00	46 50
Vaughan, Andrew J	78 00	1 62	3 12	2 75	1 99
Veazie, Joseph	1,000 00	1,626 01	100 00	20 00	1,706 01
Vennerbeck, Peter	150 00	15 34	6 00	5 00	16 34
Wade, Babara B	90 00	.....	.....	.....	.....
Waite, Rowse P	205 00	.....	8 20	7 50	70
Walker, Richard H	75 00	80	3 00	2 75	1 05
Walker, William	136 00	.....	4 08	3 00	1 08
Ward, William H	133 00	2 38	5 32	5 00	2 70
Waterman, Richard	125 00	14 20	5 00	4 00	15 20
Waterman, Sarah A	150 00	11 75	6 00	5 00	12 75
Watson, Joseph	75 00	5 62	3 00	2 75	5 87
Webster, Harriet E	75 00	1 62	3 00	2 75	1 87
Weeden, Elizabeth H	100 00	7 88	4 00	4 00	7 88
Wesson, Samuel A	120 00	.....	4 80	4 00	80
Westcott, Charles E	150 00	3 75	6 00	5 00	4 75
Wheat, George H	75 00	3 44	3 00	2 75	3 69
Wheaton, James $\left\{\begin{matrix}\$80\ 00\\50\ 00\end{matrix}\right.$	130 00	15 37	3 20	4 00	14 57
Whipple, Phebe	100 00	8 93	4 00	4 00	8 93
Whipple Anna	200 00	61 74	8 00	7 00	62 74
Whipple, Lyman	130 00	3 03	5 20	5 00	3 23
Whipple, Emily G	75 00	3 44	3 00	2 75	3 69
Whipple, Heirs of John C	75 00	3 25	3 00	2 75	3 50
Whipple, George	300 00	7 75	12 00	8 00	11 75
Amount carried forward.	$82,573 66	$7,789 03	$3,056 00	$2,344 80	$8,500 23

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NAME OF FUND.	FUND	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$82,573 66	$7,789 03	$3,056 00	$2,344 80	$8,500 23
Whitford, Ambrose N	150 00	3 12	6 00	5 00	4 12
Whiting, Fred A	45 00	.....	45	45	.....
Whiting, William E	70 00	.....	.....	.....	.....
Whitman, Mary A	100 00	3 75	4 00	3 00	4 75
Wilbur, Robert W	52 50	2 89	2 10	2 00	2 99
Wild, Rebecca	250 00	22 50	10 00	5 00	27 50
Wild, Samuel	75 00	3 25	3 00	2 75	3 50
Williams, Samuel R	150 00	17 19	6 00	5 00	18 19
Williams, Harrison G	150 00	18 34	6 00	4 50	19 84
Williams, Edward D	75 00	6 73	3 00	2 75	6 98
Williams, Robert P	75 00	6 72	3 00	2 75	6 97
Williams, Charles	75 00	5 12	3 00	2 75	5 37
Williams, William H	150 00	5 00	6 00	5 00	6 00
Williams, Thomas D	150 00	.....	6 00	5 00	1 00
Williams, Thirza J	100 00	.....	.....	.....	.....
Willing, Rebecca T	125 00	10 25	5 00	5 00	10 25
Wilson, Margaret B	150 00	75	6 00	5 00	1 75
Wilson, Joseph E. and Levi	75 00	18	3 00	2 75	43
Wilson, Julia F	42 00	.....	.....	.....	.....
Winsor, Susan J	50 00	1 68	2 00	2 00	1 68
Winsor, Paris	200 00	26 24	8 00	6 00	28 24
Wixon, Ensign R	75 00	3 88	3 00	2 75	4 13
Wood, Brown S	216 00	26 46	8 64	8 00	27 10
Woodworth, John A	90 00	.....	.....	.....	.....
Wright, Ann	150 00	17 89	6 00	5 00	18 89
Amount carried forward	$85,414 16	$7,970 97	$3,156 19	$2,427 25	$8,699 91

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NAME OF FUND.	FUND.	Income on hand Dec. 31, 1894.	Income received.	Income expended.	Income on hand Dec. 31, 1895.
Amount brought forward	$85,414 16	$7,970 97	$3,156 19	$2,427 25	$8,699 91
Wright, Amanda F.	108 00	.....	.....	.....	.....
Young, Albert	175 00	.....	7 00	5 00	2 00
Totals	$85,697 16	$7,970 97	$3,163 19	$2,432 25	$8,701 91

Deposited with Commissioners of Sinking Funds, for perpetual care of single graves at $15.00 each, $1,485.00.

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ANNUAL REPORT

OF THE

OVERSEER OF THE POOR

FOR THE YEAR

1895.

[Presented March 2, 1896.]



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1896.

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REPORT.

OFFICE OF THE OVERSEER OF THE POOR,
PROVIDENCE, March 2, 1896.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF PROVIDENCE:

GENTLEMEN: The undersigned the Overseer of the Poor, presents this, his sixth annual report, to your honorable body.

This report will give in detail the number of persons assisted, together with their nationality, and the total expenditures of the department. The tables appended are a part of my report, and also the statistical information for the year ending December 31, 1895.

DECREASE IN THE NUMBER ASSISTED.

It is gratifying to note the improvement in the condition of our city's poor during the past year. The number of applicants for aid has materially decreased, and the number assisted was almost fifty per cent less than in 1894. This is indeed encouraging when we think of our experience during the late industrial crisis which this department passed through. Every relief giving society was over-taxed in looking after the wants of the many who applied for relief in their particular districts. The men and women and even the children of our city deserve special mention for the generosity displayed in donating money and clothing for the many who were forced into want for the first time. It was a trying time for those interested in public and private out-door relief; but I am pleased to record the fact that the past year's work among the poor has demonstrated by our monthly statistics that there has been far less suffering than during the previous year.

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The following table will show the number assisted each month from 1892 to 1895 inclusive:

Months.	1892.	1893.	1894.	1895.
January	1,336	944	5,187	2,266
February	1,325	1,393	7,130	2,032
March	1,311	1,303	7,220	2,414
April	905	813	3,144	1,888
May	783	798	2,393	977
June	632	633	1,887	894
July	567	626	1,690	772
August	609	634	1,679	698
September	701	1,179	1,601	679
October	621	1,741	1,626	794
November	939	2,073	1,703	751
December	1,477	5,187	2,266	1,946

It will be noticed by the figures of the above table that the department did not really feel the effects of the dull times until November of 1893, when 1,134 more people were assisted than in the same month of 1892, and 3,710 more were relieved in December than in the same month of the previous year. The demands upon the department continued to increase till April when only 3,144 were assisted. This great decrease in one month was caused, however, by the department withdrawing from giving the usual monthly allowance of coal. Fuel is only dolled out during four months of the year, December, January, February and March. During these four months more people are assisted than any other time during the year on that account. The history of every industrial depression has been that it requires at least from five to ten years for a department similar to ours to get over the effects of the same. I am pleased to say that we have been very fortunate, for a glance at our monthly records will show that while we have assisted 3,582 more in 1895 than in 1892 our expenditures have

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been but $1,202.23 in excess of that year. This is a very small out-lay for the extra number assisted, and is sufficient evidence of the diligence exercised in impressing upon the many who apply for relief that this office is ever watchful of their condition, and just as soon as it improves, they must withdraw from receiving city aid.

EXPENDITURES.

The total expenditures for the year 1895 were	$24,791 75
Total receipts	8,090 60
Net expenses	$16,701 15

The net expenditures of $16,701.15 were expended for the following purposes:

Outdoor relief	$6,596 33
Transportation	449 07
Burials	1,021 00
Medical attendance	600 00
R. I. Hospital	441 50
Charity building and wood yard	5,533 27
Miscellaneous	103 33
Cash	556 65
Salary	1,400 00
Total	$16,701 15

Appended are the expenditures for the past four years:

Years.	1892.	1893.	1894.	1895.
Total	$15,498 92	$20,276 18	$25,555 01	$16,701 15
Outdoor relief	6,379 51	8,947 86	15,001 57	6,596 33
Transportation	289 80	446 45	763 05	449 07
Burials	888 00	1,061 00	1,025 00	1,021 00
Medical Attendance	600 00	600 00	600 00	600 00
R. I. Hospital	678 00	919 14	1,060 00	441 50
Charity building and wood yard	5,113 32	6,688 93	4,868 03	5,533 27
Miscellaneous	13 54	15 90	245 26	103 33
Salary	1,400 00	1,400 00	1,400 00	1,400 00
Cash	136 75	196 90	592 10	556 65

NUMBER ASSISTED.

The number assisted during the year was 6,389, of which 3,779 were Americans and 2,610 were foreigners.

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The following number of persons were assisted during the last eleven years:

1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.
2,290.	2,175.	2,369.	2,107.	2,348.	2,904.	2,558.	2,807.	5,064.	12,112.	6,389.

The following table shows the amount spent by this department each month during the year 1895:

Expenditures in Detail for Out-door Relief for Year 1895.

Months.	Groceries.	Coal.	Hospital.	Transportation.	Cash.	Burials.	Shoes.	Physician.	Miscellaneous.	Total.
Jan	$455 56	$217 87	$74 00	$25 73	$57 00	$41 00			$19 50	$890 66
Feb	728 10	321 56	4 00	32 80	47 50	39 00			27 50	1,200 46
March	684 12	276 94	57 50	25 40	65 50	46 00		$150 00	3 81	1,309 27
April	625 35	102 38	41 00	12 00	39 50	63 00			6 60	889 83
May	413 03	2 62	78 00	63 75	48 00	55 00			12 00	672 40
June	357 00		36 00	30 00	36 00	88 00		150 00	12 25	709 25
July	340 50		38 00	1 00	51 00	59 00				489 50
Aug	274 25		7 00	64 28	28 00	114 00			91	488 44
Sept	300 45		16 00	29 20	46 00	87 00		150 00	5 21	633 86
Oct	206 00			99 20	43 00	81 00	157 05		2 10	588 35
Nov	236 00	6 25	27 00	55 71	50 00	150 00			7 60	532 56
Dec	393 75	171 25	63 00	10 00	45 15	198 00	326 30	150 00	5 85	1,363 30
Total.	$5,014 11	$1,098 87	$441 50	$449 07	$556 65	$1,021 00	$483 35	$600 00	$103 33	$9,767 88

HOME RESEARCH.

House visits were continued this year by your Overseer, as were so successfully performed during 1894, and 2,225 friendly calls were made to the homes of our poor in every section of the city. It is pleasant to note the courtesies shown me even in the most wretched homes during the course of my visitations. The same good results followed that were mentioned in my last Annual Report. After two

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years trial, I am satisfied the home is the only place to ascertain the extent of the sufferings related when application is made for assistance. There are many who apply who are too willing to tell a very plausible story of their wants, when such wants as related do not exist. By this friendly visiting, the department is brought into closer touch with every family assisted, and no imposter can possibly continue any length of time on our relief roll without being detected. Many other good results follow, such as impressing upon the minds of mothers the necessity of keeping their homes tidy and their children clean, and above all, a remarkable decrease in the number assisted, as many, whose improved condition warranted, were told to get along, when otherwise they would be receiving their weekly allowance to the present time. The small expenditure of $1,202.23 in excess of 1892 when 3,582 more people were assisted, is the result, to my mind, of carefully watching the improvement in the social condition of the applicants. It also shows that many were assisted but a very short time. This department could spend its entire appropriation in three months without giving to the worthy poor their just due, if such measures as above mentioned were not carried out. Home research should be the watch word of every charity giver, whether public or private, for the tendency of the age is to get as much for nothing as possible.

CHARITY BUILDING.

An important event in this year's history of the department was its removal from the old time stand on North Court street to the new quarters prepared on Fountain street. On the eleventh of March, the Overseer of the Poor received the keys from Albert T. Mansfield, Superintendent of Public Buildings, and the same day took possession.

As soon after the removal as possible, the building was open to public inspection, and the large number of citizens who took advantage of the invitation extended them, ex-

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pressed themselves as thoroughly appreciating the change. The advantages of the present quarters over those formerly occupied, are so obvious as to hardly need expression, and before two weeks after entering, were tested to no small degree. On the eighteenth of March a family of nine, a mother and eight children, the oldest eleven years and the youngest four months, were, through the destruction of their home by fire, left without shelter. They were cared for in the department until April second when the mother again had a home prepared for her little ones. During the same period another woman with two little ones, and later, a family of six children and a mother, were cared for until suitable homes were provided for them.

In these cases, together with those of the many women and girls afforded temporary shelter, the facilities for providing for such proved their worth. The healthful, airy dormitories, and roomy, and up to date lavatories, easily accessible without trespass on the business portion of the building, are of great value in contributing to the health, cleanliness and comfort of those concerned. The kitchen apartments and the tramps' dining room are particularly well adapted to the work performed. Here we have a large, eight cover range with ample oven room for baking, together with a stew or soup kettle, which holds forty gallons, and a coffee urn. These modern improvements in supplying food make a very agreeable change from the old way of working. The old building was possessed of nothing more than an old, worn out, number eight range that had been in constant use since the establishment of the building in 1878. The dining room, where meals are served the men, is also better laid out. A large counter is built which will accommodate some thirty-five at a time. The commendable features of this arrangement are many, but the most important one is that it does away with that personal contact between the served and the servers.

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A table showing the number of meals given at the building to men, women and children, also their nationality and the total expense of the same.

Charity Building.

MONTHS.	Number of Meals to Tramps.	Number of Meals to Women.	Number of Meals to Children.	Total Number of Meals.	Total Expenditure.	Number of Americans.	Number of Foreigners.	Total Number of Persons.
January	993	372	83	1,448	$195 80	334	321	655
February	1,025	122	117	1,264	746 32	296	407	703
March	708	242	417	1,367	560 20	351	350	701
April	409	216	279	904	829 09	295	117	412
May	157	122	177	456	441 54	94	56	150
June	114	85	59	258	554 36	54	45	99
July	251	158	249	658	260 97	89	155	244
August	254	193	332	779	344 84	170	92	262
September	213	179	13	405	395 21	129	72	201
October	145	163	67	375	476 31	91	34	125
November	86	200	29	315	403 66	67	42	109
December	400	211	274	885	406 09	204	193	397
Total	4,755	2,263	2,096	9,114	$5,614 39	2,174	1,884	4,058

TRAMP QUARTERS.

I would respectfully call the attention of the City Council to the necessity of completing the furnishings of this part of the building. Some five hundred dollars has already been spent in equipping the lodging-room proper, and an additional expenditure of one thousand will be required to furnish the necessary apparatus for cleansing and drying the clothing. The room, as now arranged, will accommodate sixty men, and it seems too bad that such an important branch of the department should be allowed to remain idle an entire year, when

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such a necessity exist as a respectable lodging place for these unprovided for unfortunates. Here the citizens of our city could send, when accosted on our thoroughfares or applied to at their homes, feeling sure the applicant would be cared for not only with a warm and comfortable resting place for the night, but also with the knowledge that the unfortunate fellow would receive a much needed bath and his clothes be thoroughly cleansed. This would do away with street begging which has become so prevalent during the past few years. There are too many imposters who take advantage of this lodging plea, in order to get money for liquor. In the evening it is quite noticeable—the persistency with which this part of the trade is carried out. It is by aiding these that the real harm is done, as it encourages indolence and vagrancy.

The maintaining of a lodge, such as this, is a duty on the part of the city, in order that disease might be kept to its lowest figure in our midst. The sanitary improvements urged by the municipality during the past few years have been many, but this very important one has escaped public attention.

There are many arguments in favor of this advance step, and I presume some against it, but may I ask what is to become of the unclean tramp? Would you force him to commit crime that he may become clean? Yet how many poor fellows do it for the first time that they may receive the benefit of that much needed bath. We are in a position to know of some of the petty offences committed for that and that alone. Sixty per cent. of the men on the road are not chronics by any means, but are forced there temporarily in order to better their condition. What good can you expect of a man who has become tainted with vermin? Yet one night's lodging in the majority of the cheap lodging houses is sufficient to place him in that shape and thereby prevent a respectable and deserving man from getting employment. Again, will any of our citizens

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place their modern, fixed-up lavatories at their disposal? I think not. Then what is the respectable, unfortunate fellow to do? He wishes to become clean, and sees one way of doing it, although repugnant to him, but it becomes a choice of two evils; remain in filth and sink deeper and deeper in vice, or be temporarily confined in jail at the State's expense. The better choice is taken by many in committing a petty offence. Have we ever given it a thought that the City of Providence in the end foots the bill with compound interest, as nearly one-half the State tax is born by our city. That, gentlemen, is only looking at it from an enconomical standpoint. When we look at the Christian side how much more grave it appears. If it is beyond our power to prevent crime we, at least, should not encourage it, and such well adapted male quarters lying idle two winters without doing the good of its inception is encouraging crime and the cause of making criminals.

The expense of maintaining the lodge per night will be about ten cents per head which would be realized by work performed in the wood yard the next day. Gentlemen, I trust some action will be taken towards equipping this part of the building with the apparatus necessary to carry on this work.

Since the establishment of the building in May 1878, the registry has been as follows:

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Registry of Meals from 1878 to 1895 Inclusive, Also of the Number of Women and Children.

YEARS.	Number of Women.	Number of Children.	Total.	Total Number of Meals.
1878, eight months	1,137	28	1,165	1,529
1879,	198	25	223	1,167
1880,	134	33	167	1,482
1881,	123	39	162	3,070
1882,	157	51	208	2,600
1883,	161	57	218	1,917
1884,	177	58	235	2,956
1885,	163	60	223	2,062
1886,	138	24	162	2,475
1887,	119	54	173	2,553
1888,	143	89	232	2,378
1889,	157	76	233	2,746
1890,	128	65	193	1,996
1891,	223	100	323	1,489
1892,	167	52	219	906
1893,	143	45	188	2,114
1894,	131	61	192	3,751
1895,	150	54	204	4,359
Total	3,749	971	4,720	41,350

The above table only shows the number of meals furnished women and children. The number of meals given to men were 49,319 which makes the total number of meals furnished since the building was established 90,669.

CHARITY WOOD YARD.

During the early part of the year the wood yard was removed to Gaspee, corner of Stillman street, in order to make room for railroad improvements. The present location, while considered a temporary one, is well located, unless a

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more desirable place could be had, which would bring the yard nearer the department proper. Some objection was raised to the present location on account of its close proximity to the new State House. The yard, while perhaps the name "charity" might be an objection, is just as presentable as a freight yard with its many old box cars etc. exactly in front of the same land. It will however, be a few years before our much talked of marble structure will be ready for occupancy and ere that time arrives, if necessary to remove, a more convenient place might be had to continue the work.

The yard performed its share of good work during the year. Without it, I am satisfied this department would be imposed upon many times. Wood yards similar to ours are now in operation in every large city of our country and the same encouraging reports have been received of the good accomplished through them.

The yard has furnished employment during the year to 190 men, some only working during the winter months. It also gave an opportunity for thirty men to work for shoes: 110 for coal and 450 for groceries, while 28 worked for transportation.

On October 8th the yard was partially destroyed by fire and sustained a loss of $2,200. The building was damaged to the extent of $800, while the loss to the sawed and split wood stored in the sheds was $1,400. The cause of the fire was not ascertained, but I am firmly of the opinion it was of incendiary origin.

A table giving the total expenditures, together with the total receipts, and number of tramps who worked during the year.

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Charity Wood Yard.

Months.	Total Expenditures.	Total Receipts.	Net Expenses.	Net Receipts.	Amount Paid for Labor.	Number of Tramps.	Americans.	Foreigners.
January	$314 64	$653 94		$339 30	$299 99	592	300	292
February	696 29	719 65		23 36	343 08	365	91	274
March	1,048 68	733 25	315 43		440 27	505	255	250
April	752 73	960 75		208 02	358 75	325	244	81
May	665 77	1,032 17		366 40	331 75	139	92	47
June	753 99	691 25	62 74		409 32	156	80	76
July	557 71	413 07	144 64		342 86	200	66	134
August	654 58	258 75	395 83		368 91	197	132	65
September	706 26	385 50	320 76		283 41	172	115	57
October	425 97	965 26		539 29	281 29	81	65	16
November	657 88	549 94	107 94		397 84	40	30	10
December	774 98	727 07	47 91		355 14	253	130	123
Total	$8,009 48	$8,090 60	$1,395 25	$1,476 37	$4,212 61	3,025	1,600	1,425

A table showing the occupations of the tramps that worked in the yard during the year:

Months.	Laborers	Weavers	Spinners	Carpenters	Moulders	Blacksmiths	Machinists	Total
January	212	75	80	50	50	80	45	592
February	94	79	75	31	25	15	46	365
March	95	65	70	53	93	76	73	525
April	45	60	55	45	30	40	50	325
May	60	15	16	7	21	12	8	139
June	56	10	15	24	18	21	12	156
July	52	33	25	25	25	25	15	200
August	50	32	25	25	25	2	15	174
September	77	30	25	10	15	10	5	172
October	20	10	13	7	2	11	21	84
November	7	2	3	2	11	11	4	40
December	81	44	30	26	22	30	20	253
Total	849	455	432	305	337	333	314	3,025

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Since the opening of the wood yard in May, 1878, the registry by years of the number of tramps has been as follows:

1878	1,248
1879	1,143
1880	634
1881	603
1882	1,135
1883	1,205
1884	1,498
1885	1,352
1886	1,886
1887	1,464
1888	1,710
1889 and six days in January, 1890	2,538
1890	1,868
1891	1,914
1892	1,992
1893	3,892
1894	5,262
1895	3,025

A decrease of 2,237.

MONEY RECEIVED FOR ASSISTING POOR.

Received for transportation, burials, etc	$137 47
" " interest on money	14 94
" from town of North Attleboro, Mass	9 25
" " Dexter Asylum	12 00
" " town of Nantucket	40 00
Total	$213 66

DEXTER ASYLUM.

The following are the statistics of the Dexter Asylum for the year 1895:

Number of inmates, January 1, 1895		107
Admitted during the year		47
Total		154
Discharged during the year	31	
Died during the year	17	
Total		48
Remaining January 1, 1895		106
Average number of inmates	105	
Whole expense for the support of the Asylum		$32,370 33
Received from products and other sources	$21,939 59	
Received from Dexter Donation	10,430 74	
Total		$32,370 33

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A table showing by months the number admitted, the number discharged, the number of deaths, and the total number remaining, both males and females.

Dexter Asylum Record for Year 1895.

Months.	Admissions.	Discharges.	Deaths.	Remaining.	Males.	Females.	Americans.	Foreigners.
January	5	3	0	109	62	47	67	42
February	8	2	2	113	63	50	73	40
March	6	2	3	114	64	50	72	42
April	3	6	3	108	57	51	70	38
May	3	6	0	105	55	50	66	39
June	3	6	1	101	52	49	62	39
July	2	1	0	102	54	48	62	40
August	3	1	3	101	54	47	62	39
September	2	2	3	98	53	45	58	40
October	0	1	1	96	53	43	57	39
November	8	1	1	102	56	46	62	40
December	4	0	0	106	59	47	64	42
Total	47	31	17					

A table showing the total expenses, total receipts and draft drawn on Dexter Donation every three months for the years 1894 and 1895:

1894.				1895.			
Months.	Expenditures.	Receipts.	Draft on Donation	Months.	Expenditures.	Receipts.	Draft on Donation
February..	$8,318 84	$3,680 14	$4,638 70	February..	$8,061 25	$4,566 44	$3,494 81
May	7,738 26	5,455 37	2,282 89	May	9,059 58	6,392 31	2,667 27
August....	7,459 14	5,626 67	1,832 47	August....	7,334 79	5,889 93	1,444 86
November.	8,788 90	4,287 85	4,501 05	November.	7,914 71	5,090 91	2,823 80
Total....	$32,305 14	$19,050 03	$13,255 11	Total....	$32,370 33	$21,939 59	$10,430 74

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The institution is in excellent repair. The walls of rooms of the institution building have been kalsomined from basement to attic. The work was performed by inmates who had formerly worked at the business, and the only expense attending the same was the furnishing of stock.

The farm is in a very good state of cultivation as shown by the income when prices for farm produce are so very low.

MEDICAL SERVICE.

The report of the physicians employed by the department is as follows:

First that they have made 609 house visits, and have held 380 office consultations. Second, that of the 421 patients under care and treatment 166 have recovered, 83 improved, 30 unimproved, 7 sent to the Insane Asylum, 15 died, 48 sent to State Almshouse, 20 to Dexter Asylum, 22 to R. I. Hospital, 15 out of the State, and in 15 cases the result was unknown. Third, the character of the cases treated: 229 were acute, 192 chronic. Fourth, that 338 were adults and 83 children. Fifth, that 408 were white and 13 colored. Sixth, that 212 were males and 209 females. Seventh, that 155 were married, and 211 single, 33 widows, 21 widowers and 1 divorced. Eighth, that 275 that applied were foreigners, and 146 were Americans.

CHRISTMAS BASKET.

The custom of the past five years was followed out by opening a subscription a few weeks before Christmas in the columns of the *Journal*. Although a smaller sum was received than in former years, still sufficient was realized to furnish the many hundred who applied, with a basket brim full of eatables, or, as many remarked, "it was too heavy to carry home." The Christmas Basket is an annual expecta-

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tion now on the part of the worthy poor, and I trust the generosity that has supported it in the past will continue to remember it in the future, for it makes thousands happy on that day when all should be of good cheer.

Respectfully submitted,

MATTHEW J. CUMMINGS,

Overseer of the Poor.

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FIRST ANNUAL REPORT

OF THE

BOARD

OF

FIRE COMMISSIONERS

FOR THE YEAR

1895.

[Presented February 20, 1896.]



REMINGTON PRINTING CO., CITY PRINTERS,
63 Washington Street,
1896.

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REPORT.

HEADQUARTERS FIRE DEPARTMENT,
OFFICE OF THE BOARD OF FIRE COMMISSIONERS,
CITY HALL, January 1, 1896.

TO THE HONORABLE THE CITY COUNCIL:

GENTLEMEN:—In compliance with the provisions of Section 4, of Chapter 625, of the Ordinances, the Board of Fire Commissioners have the honor of herewith submitting for your consideration the annual report of the operations and conditions of the Fire Department during the year ending December 31, 1895, the same being the first report submitted by the Board.

The control and management of the Fire Department was, in 1892, vested by the General Assembly, in a Board of three Fire Commissioners whom it was provided should be elected in joint convention by the City Council. Although this law was enacted in 1892, yet the Board was not elected until February 26, 1895. On that date the present Board of Fire Commissioners was chosen, and upon the next day they assumed the management of the department. For three years the Fire Department had been without any legal head and the Board found that certain changes, from the methods formerly pursued, were necessary in order to place it upon a more efficient basis. These changes the Board have made, from time to time, and looking back upon the work accomplished they are convinced that their action has been attended with beneficial results. They believe that the department is now in better condition than ever before and that both the personnel and morale of the force have been greatly improved.

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MANUAL FORCE.

At the time the Board entered upon their duties the force employed by the city consisted of 212 permanent and 43 call men, a total of 255. Since that time 19 members have been added to the permanent force, while the number of call men has been reduced to twenty seven. The additions to the permanent force have been as follows:—

March 23, 1895, the force of Engine Co. No. 12, was increased by the appointment of one man.

March 29, 1895, the position of Supply Clerk was created and Capt. Henry R. Beehler, who had received such injuries as to incapacitate him for fire service, was assigned thereto.

May 20, 1895, an additional man was added to the force of Engine Companies Nos. 5 and 10, respectively, and similar action was taken relative to the force of Engine Co. No. 16, on June 10.

August 1, 1895 another man was added to the force of Hook and Ladder Co. No. 2, and September 23, one man was transferred from the call to the permanent force of Hose Co. No. 15.

October 1, 1895, two call men were dropped from Hose Co. No. 11, and one permanent member added.

November 15, 1895, the position of Call Assistant Engineer was abolished, and two permanent District Chiefs appointed, and upon the same date Engine Co. No. 8 was made a permanent company, two call members being replaced by one permanent member.

November 30, 1895, Hose Co. No. 18, with a force of eight permanent men, was organized and placed in commission.

The force at the close of the year, consisted of 231 permanent and 27 call men, exclusive of the Board of Fire

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Commissioners. In addition to this number there were 3 permanent and 4 call men employed by the Protective Department, making the total force of the Fire and Protective Departments 268.

This force is classified as follows:

3 Fire Commissioners.
1 Clerk.

1 Chief Engineer.
1 Deputy Chief Engineer.
2 Assistant Engineers.
26 Captains.
27 Lieutenants.
1 Supply Clerk.
76 Hosemen.
42 Laddermen.
38 Drivers.
7 Enginemen.
4 Substitutes filling vacancies.

Fire Alarm Service:

1 Superintendent.
1 Assistant Superintendent.
1 Batteryman.
2 Linemen.

Call Force:

17 Hosemen.
10 Laddermen.

Protective Department:

1 Captain.
1 Lieutenant.
2 Permanent Covermen.
3 Call Covermen.

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The force is divided into 27 Companies as follows:

11 Hose Companies.
7 Engine Companies.
1 Chemical Engine Company.
7 Hook and Ladder Companies.
1 Protective Company.

The changes occurring in the force since the Commissioners have had charge have been as follows:

Appointed on the Permanent Force	17
Transferred from the Call to the Permanent Force	10
Appointed on the Call Force	9
Transferred to other Companies	20
Resigned from the Permanent Force	7
Resigned from the Call Force	8
Honorably discharged from the Call Force	5
Dishonorably discharged from the Permanent Force	3
Dishonorably discharged from the Call Force	2
Promotions	16
Reductions	3
Deaths	1

Thirty-six candidates have successfully passed the examination required before being appointed and three have been rejected.

The salaries of the following number of the members of the permanent force have been increased:

1	member	from	$2.00	to	$3.00	per	day.
3	"	"	2.00	"	2.33	"	"
14	"	"	2.33	"	2.67	"	"
4	"	"	2.33	"	3.00	"	"
17	"	"	2.67	"	3.00	"	"

Seven members have been transferred from the Call to the Permanent force at the rate of $2.67 per day, and one member who, prior to his appointment had served for a long time as a substitute, was graded at $2.33 per day.

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The members of the permanent force, below the rank of Lieutenant are divided into four grades.

Privates	of	the	First	Grade	receive	$3.00	per day.
"	"		Second	"	"	2.67	" "
"	"		Third	"	"	2.33	" "
"	"		Fourth	"	"	2.00	" "

The advancement of any member from a lower to a higher grade does not depend upon the length of service, but is governed by merit alone, and a new appointee, if he proves capable and efficient, stands as good a chance of advancement as one who has served for a longer period. It is also within the province of the Board to reduce members from a higher to a lower grade if they fail to remain at the standard required.

This method the Board believe to be the best that can be adopted, as members are not only continually striving for advancement, but are also compelled to put forth their best efforts in order to remain in the higher grade to which they have been advanced. The city receives the best services of which the members are capable, and much better results are gained than when length of service alone determines the rate of pay. At the present time there are

120	Privates	of	the	First Grade.
19	"	"		Second "
5	"	"		Third "
22	"	"		Fourth "

During the year just closed valuable work has been performed by the members in inspecting buildings with a view of causing the removal of rubbish and other combustible material therefrom, and the comparatively small fire loss sustained has been, in a large measure, due to intelligent and well directed effort in this particular.

The work of the department is, however, greatly hampered by the limited authority which the Board possess relative to

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this matter. A stringent law is needed, and provision should be made whereby the removal of such material may be made at the expense of the owner of the premises.

It is certainly for the interest of the owner that combustible material should not be allowed to accumulate in such manner as to endanger his property, and it is through him that the tenants of the building can be most readily reached. As the law now stands action can only be directed against the occupants, and where there are a large number in one building it is almost impossible to compel them to comply with the law, and action should be taken which will result in the enactment of such legislation as will enable the Board to place the responsibility, so far as may be possible, upon the owner or lessee.

APPARATUS.

Prior to the election of the Board of Fire Commissioners, a contract was made, by the Joint Standing Committee on Fire Department, with Archibald Martin, of this city, to build three Hose Wagons, an equal number of old exercise wagons to be taken in part payment therefor. These Hose Wagons were delivered and placed in service as follows:

Hose Wagon No. 3, placed in service June 18, 1895.
Hose Wagon No. 6, placed in service May 9, 1895.
Hose Wagon No. 11, placed in service May 18, 1895.

On August 6, 1895, a contract was made with the Fire Extinguisher Manufacturing Company, of Chicago, Ill., through their agents, S. F. Hayward & Co., of New York, for one Patent Steel Body Combination Hose Wagon and Chemical Engine, and the same was delivered and placed in service, November 30, 1895, with Hose Co. No. 18 in the new station at the junction of Broad and Rugby streets. This wagon has a carrying capacity of 800 feet of 2½ inch hose, and is provided with a Chemical Engine Tank of 50 gallons capacity, and in the opinion of the Board, is well adapted for that portion of the city where it is now located.

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On October 23, 1895, the Water Tower, purchased in 1893, was placed in reserve and removed from Station 4 on Mill street to Station 1 on Exchange place. The Board could conceive of no good reason why the services of one man and two horses should be continued in connection with this apparatus, as it was seldom called into requisition, and if needed could as promptly respond if placed at its present location; hence the action above mentioned was taken.

On the same date the Jumbo Hose Wagon, which had been located at Station No. 1, since 1887 was removed to the station on Haymarket street, formerly occupied by the Police Department and which had been turned over to this department on July 2, 1895.

On August 9, 1895 the third size La France Engine purchased in 1893, and which has been held in reserve since that time, was placed in active service with Engine Co. No. 14, and the Silsby Engine, used by that company since May 9, 1891 was placed in reserve. The latter engine was purchased in 1871 and was used by Engine Co. No. 8 until 1891, when it was rebuilt and sent to Station No. 14.

The matter of procuring an extra first size engine for service in the centre of the city has been fully considered by the Board, and, in their opinion, such an addition to the equipment of the department, is necessary. It is neither good judgment nor wise policy to place entire dependence upon our hydrant service, or upon engines of limited capacity especially in a district where the buildings are high, and filled with material of a combustible nature. At present there is but one engine located near this point, that being the one located at the South Main street station. There is ample room at the station on Mill street and the Hose Company located therein should be changed to an Engine Company and a machine of the capacity indicated should be placed in its

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charge. The additional manual force required in order to make this change would not exceed three men, and the department would be fully prepared to cope with large fires occurring in this section. Providence is the only city approaching its size, of which the Board have knowledge, that is not provided with one or more, engines of the largest size, and the need of such apparatus is so evident that the Board do not hesitate in recommending that such an engine be purchased at an early date and placed in service at the station named.

The apparatus now in service consists of:

1 Third size La France Engine.
1 Second size La France Engine.
3 Third size Silsby Engines.
2 Second size Cole Engines.
18 Four-wheeled Hose Wagons.
1 Steel Body Combination Hose Wagon and Chemical Engine.
2 Babcock Chemical Engines.
1 Champion Chemical Engine.
1 First size Hayes Hook and Ladder Truck.
2 Second size Hayes Hook and Ladder Trucks.
1 Third size Hayes Hook and Ladder Truck.
3 Roller Frame Hook and Ladder Trucks.
2 Protective Wagons (Owned by the Protective Department.)
21 Exercise Wagons.
4 Engineers Wagons.

All of this apparatus is in good condition and, with the exception of the truck used by Hook and Ladder Co. No. 3, is well adapted for the requirements of the service.

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RESERVE APPARATUS.

The apparatus in reserve consists of:

1 Second size Silsby Engine.
1 Two-wheeled Hose Reel.
1 Second size Hayes Hook and Ladder Truck.
1 Roller Frame Hook and Ladder Truck.
1 Champion Water Tower.

HORSES.

No portion of our equipment has received more attention than the horses attached to the various apparatus. One of the most difficult tasks which the Board have had to perform has been the one of securing animals which would answer the needs of the service. Many of those in the department were in no manner fitted for the work and it was found necessary to make many changes. This has been carefully done and the Board believe that the stock now in service will compare favorably with that in any other department. The horses purchased have been obtained at an average exchange price of $108.00 each, a saving of $53.00 per horse as compared with the prices paid during the preceding year.

At the present time there are 87 horses in service, 84 being attached to the various apparatus and 3 are kept as spare horses to be used in cases of emergency.

HOSE.

Particular attention has been devoted towards securing a supply of hose sufficient for any emergency that may arise, and one of the first steps taken by the Board was that of purchasing a full complement of this indispensable article.

For many years a particular brand of hose had been used, and the Board found that an order for 2,000 feet had been placed before their connection with the department. The price per foot for this brand of hose was eighty cents net,

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and no further reduction could be secured. Inquiries were made and the Board became satisfied that hose, equally as good, could be purchased for a less sum, and accordingly an order was given for 3,000 feet of another brand at seventy cents per foot. This hose has been in the market for a number of years; in fact it was ascertained that there were sections which had been in service in this department for the past twelve years. The price paid represents a saving of two hundred dollars on each 2,000 feet over that paid for the hose formerly purchased. Additional orders aggregating 4,000 feet have since been placed. The Board do not believe that it is good policy to confine purchases to one particular brand, and accordingly they have purchased 2,000 feet of still another brand of hose at a cost of fifty-eight cents per foot. This is the first hose of this kind ever used in this department, and so far it has proven satisfactory in every particular. It will be seen that a saving of $1,140.00 has been made by purchasing the hose mentioned instead of continuing to invest in the brand formerly obtained.

At the present time we have on hand:

1,950 feet	of 2 1-2 inch Paragon Hose
18,400 feet	of 2 1-2 inch Baker Fabric Hose
7,000 feet	of 2 1-2 inch Keystone Jacket Hose
2,000 feet	of 2 1-2 inch What Cheer Jacket Hose
1,600 feet	of 2 1-2 inch Rubber Hose

Total, 30,950 feet of 2 1-2 inch hose.

In addition to this we have on hand 1,650 feet of 3½ inch hose of the Baker Brand.

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The 2½ inch hose is distributed as follows:

COMPANY.	No. of feet Baker Hose.	No. of feet Keystone Hose.	No. of feet What Cheer Hose.	No. of feet Paragon Hose.	No. of feet Rubber Hose.
Hose Company No. 1	1,100	250	200		
Engine Company No. 2	1,050	250		200	
Hose Company No. 3	1,350	150		100	
Hose Company No. 4	1,250	200		100	
Engine Company No. 5	1,000	400		50	300
Hose Company No. 6	1,000	550		50	
Hose Company No. 7	1,200	200		200	50
Engine Company No. 8	1,050	200	250		50
Hose Company No. 9	1,000			300	
Engine Company No. 10	1,150	100			500
Hose Company No. 11	700	600		150	
Engine Company No. 12	1,050	300		50	200
Hose Company No. 13	1,100	450		100	
Engine Company No. 14	600			550	500
Hose Company No. 15	1,250	250		100	
Engine Company No. 16	1,050	450			
Hose Company No. 17	1,500	200			
Hose Company No. 18			1,550		
Reserve		2,450			
Total	18,400	7,000	2,000	1,950	1,600

EXPENDITURES.

The amount expended for the maintenance of the department during the past year has been $293,352.00. Of this amount $212,046.45 was expended from the appropriation for 1894-95, and $81,205.55 from the appropriation for 1895-96.

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The condition of the appropriation for the fiscal year ending September 30, 1896, is at this date as follows:

Appropriation	$284,000 00
Amount expended from October 1, 1895 to December 31, 1895	81,205 55
Balance unexpended January 1, 1896	$202,794 45

The objects for which the expenditures have been made are classified as follows:

Salaries		$245,268 64
Hose:		
2,000 feet of Baker Fabric Hose	$1,600 00	
2,000 feet of What Cheer Jacket Hose	1,160 00	
7,000 feet of Keystone Jacket Hose	4,900 00	
100 feet of Chemical Hose	40 00	
		7,700 00
New Apparatus:		
1 Combination Hose Wagon and Chemical Engine	$1,600 00	
3 Hose Wagons	1,072 50	
1 Wagon for Deputy Chief	275 00	
2 Wagons for District Chiefs	200 00	
3 Exercise Wagons	265 00	
		3,412 50
Ladders, Harnesses and Equipments		1,096 35
Hay and Straw		5,395 08
Grain		4,152 92
Horses		4,036 00
Gas		3,585 93
Fuel		3,391 40
Repairs and Alterations		3,308 79
Fire Alarm Telegraph		3,778 10
Horse Shoeing		1,785 60
Supplies		1,949 90
Laundry Work		1,202 21
Bedding and Toweling		788 48
Veterinary Attendance		784 00
Extra Horses during Winter		428 60
Ice at Stations		204 40
Printing and Stationery		83 17
Fire Marshal's Expenses		78 86
Miscellaneous Expenses		921 07
Total		$293,352 00

WATER.

During the past year 44 hydrants have been placed in service, making the total number, as reported to this office, 1648.

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The Fire Department has no control, whatever, over the hydrants although Section 10, of Chapter 625 of the Ordinances provides that "Every person who shall obstruct, or interfere with the use of any fire hydrant in this city, by piles of lumber, by building material, articles of merchandise, the excavation or removal of buildings, the deposit of dirt or rubbish, or in any other way or manner, unless by permission of the Board of Fire Commissioners, shall, upon conviction, pay a fine of not less than ten, nor more than twenty dollars for each such offence, and every day that such obstruction, or interference continues, shall be deemed and regarded as a separate offence."

It would appear from the foregoing extract that the Board of Fire Commissioners were vested with full authority in relation to this matter but this is not so, as Section 5 of Chapter 640 of the Public Laws, authorizes the City of Providence to "establish such public hydrants in such public places as they may see fit, and prescribe for what purposes the same shall be used." This power was conferred upon the Commissioner of Public Works, in 1888, by act of the General Assembly, Chapter 677. It is contended that the water department has to keep the hydrants in repair, and they are a necessary part in the maintenance of the work. The fact is admitted, but at the same time the Fire Department has always seen that the hydrants were ready for use in case of fire. The members of the department examine the hydrants each month and any that are found in need of repairs are at once reported to the Commissioner of Public Works. During the winter months the firemen see that the hydrants are kept clear of snow and in case of freezing they are thawed out by the members of this department. The Board believe that all matters relating to the fire hydrants, after the same have been located should, be placed in their hands. They are responsible for the extinguishment and prevention of fires, and should have the right to know when and by whom the hydrants are being used. Instances have oc-

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curred during the past year when the hydrants have been used in such manner as to endanger property in case of fire. Hydrant heads have been found attached, and lines of pipe and hose connected thereto, and in case of fire much delay would have been experienced before the hydrant could have been used by this department. This has occurred in the very center of the city, and action should be taken which will result in amending the present law so that the control of the hydrants shall be vested in the Board of Fire Commissioners. That such control was intended is evident from the extract from Chapter 625 of the ordinances to which attention has been previously called, and the Board believe that inasmuch as the hydrants are mainly located for use in case of fire, and are so essentially a part of the working equipment of the Fire Department that the control of the same should be vested in those whom the law holds directly responsible, and who are to be judged according to the manner in which the work of the department under their charge is performed.

PROTECTIVE DEPARTMENT.

This department has proved an invaluable auxiliary during the year just closed and the work which they have accomplished has done much to prevent damage to property. At present two wagons are operated. No. 1 Wagon has responded to 191 bell and 4 still alarms, and No. 2 Wagon to 174 bell and 15 still alarms. 37 Roof Covers and 749 Stock Covers have been spread, 25 Extinguishers have been used and it may be of interest to note that over 800 miles have been traveled by the company in responding to alarms.

The force of this department should certainly be increased, but this is a matter which rests wholly with the Insurance Companies which contribute towards its maintenance. A force composed entirely of permanent members is, however, needed, as the nature of the work which they are expected to perform is such as calls for promptness at the very begin-

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ning of a fire and before the hose companies have commenced operations. This cannot be done where the services of call men are relied upon, and although the question of expense has so far prevented the placing of the company upon a permanent basis, yet the Board believe that the benefits accruing to the Insurance Companies by such action would more than compensate them for the additional outlay.

FIRE ALARM TELEGRAPH.

The fire alarm telegraph is the very heart of the fire department service. Without it, it matters but little how large or powerful the equipment, nor how inexhaustible the water supply. Prompt alarms will do more toward decreasing the fire loss than will anything else and the greater the number of boxes, the less liability of a disastrous conflagration. This portion of our service demands the utmost attention, and every improvement in the way of boxes and office machinery should be adopted. The present system is what is known as the Automatic, and has been in use ever since the introduction of the fire alarm in 1870. Changes have been made, from time to time, in the capacity of the repeating apparatus, and old boxes have been exchanged for those of newer and improved pattern but the service is to-day conducted upon the same principles as it was twenty-five years ago. In most of the larger cities the Automatic has given place to what is known as the Central Office System and, in the opinion of the Board, this course should be followed here. The greatest liberality should be exercised in securing all necessary improvements, and in no branch of the service can money be more judiciously expended than in that of the fire alarm. The Central Office System possesses many points of superiority over the Automatic, and it is conceded on every hand that it is the only proper system for a city as large as Providence. The cost of making the change would be large, but where so much depends upon the successful

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working of a system the cost should be a matter of secondary importance. The Board believe that action should be taken whereby the city may be provided with the best system of fire alarm obtainable, and they trust that steps may be taken during the ensuing year which will result in the attainment of this object.

In connection with this matter it may not be amiss to call attention to the fact that within a short time all fire alarm wires, in the centre of the city, will be placed in subterranean conduits. This work is in charge of a joint special committee of the City Council, and they have earnestly labored to make this portion of the service as perfect as possible. Many changes will be made in the location of the boxes and a greater number will be placed in service. Placing the wires of the fire alarm underground will result in removing, in this district, many of the causes which have heretofore affected the service. In sections of the city not covered by the underground conduits we shall, however, continue to experience the same troubles as formerly, unless action is taken to prevent wires carrying high tension currents from interfering with those of the fire alarm. Much trouble has been caused in this particular, during the past year, and in one instance an entire section of the city—the Mt. Pleasant District—was without means of notifying the department in case of fire. Such an occurrence is a serious matter and is liable to be attended with disastrous results. Workmen engaged in the construction of these lines are fully aware of the importance of the fire alarm, and can ascertain without difficulty the location of our wires, and it would appear to be an easy matter for the company employing these men to take such measures as will prevent interference, in any way or manner with the wires of the fire alarm.

The care and maintenance of the fire alarm telegraph devolves upon the Superintendent, Mr. Charles G. Cloudman, and he is entitled to great credit for the manner in which he has performed the arduous duties of his position during the year just closed.

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MORTALITY.

The department has lost but one of its members by death during the past year, viz.:

George H. Gordon, Engine Driver, Engine Co. No 12, died December 20, 1895.

CASUALTIES.

No serious accidents have occurred during the year, and the members are to be congratulated upon the fact that none have been compelled to retire from duty for any length of time on account of injuries received while performing fire service. The Board are of the opinion that members absent from duty on account of injuries received while at fires should receive their compensation while so absent. They submitted a bill for an ordinance to the Council last June giving them authority to take such action, but the City Solicitor ruled that the City Council had no authority to adopt such an ordinance, and the Joint Standing Committee on Ordinances, to whom the matter was referred, recommended that a request be made to the General Assembly for an enabling act, and this recommendation was adopted, and without doubt the necessary authority will be shortly secured.

FIRES AND LOSSES.

During the year ending December 31, 1895 there were 372 bell alarms and 284 still alarms, a total of 656, this being the largest number of alarms occurring in this city during any year.

The loss occasioned by fire was, as near as could be ascertained, $140,448.45 as follows:

Insured loss on buildings	$52,040 48
Uninsured loss on buildings	14,317 97
Total loss on buildings	$66,358 45
Insured loss on contents	$55,416 71
Uninsured loss on contents	18,673 29
Total loss on contents	$74,090 00

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The total amount of insurance as near as the Board have been able to learn has been as follows: $1,595,660.00.

Insurance on buildings	$833,247 00
Insurance on contents	762,413 00
Total insurance	$1,595,660 00

The amount paid by the insurance companies in liquidation of losses has amounted to the sum of $106,190.19.

The amount of loss was the smallest sustained in this city since 1887, and in the opinion of the Board this result is due to three causes, viz,:—prompt alarms, removal of rubbish, and earnest and intelligent effort on the part of the officers and members of the department.

The following table exhibits the number of alarms, amount of loss and insurance, and also amount of insurance paid each month:—

MONTHS.	ALARMS.		Loss on Buildings.	Loss on Contents.	Insurance.	Insurance Paid.
	Bells.	Stills.				
January	48	19	$4,199 46	$11,909 74	$170,000 00	$12,856 77
February	33	26	8,326 74	5,894 26	78,525 00	11,760 48
March	33	24	4,469 45	6,305 04	163,500 00	9,374 49
April	35	24	896 42	2,404 00	76,000 00	2,509 42
May	32	17	13,910 55	12,175 00	202,190 00	17,616 91
June	34	28	4,451 15	7,098 60	132,375 00	9,284 75
July	35	28	15,039 06	10,651 00	97,240 00	22,065 56
August	26	24	2,093 19	6,884 18	333,100 00	5,363 57
September	25	30	1,364 72	295 00	42,450 00	1,479 72
October	23	18	6,353 41	3,101 73	117,100 00	7,166 97
November	32	20	3,952 48	5,982 75	78,080 00	4,373 02
December	16	26	1,301 82	1,388 70	105,100 00	2,338 53
Total	372	284	$66,358 45	$74,090 00	$1,595,660 00	$106,190 19

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The work performed by the various companies is herewith given:

HOSE.	ALARMS ATTENDED.		ABSENT FROM STATION.			Number of Feet of Hose laid.	Number of Hydrant Streams used.	Number of Engine Streams used.	Number of Extinguishers used.
	Bells.	Stills.	Days.	Hours.	Minutes.				
1	121	28	3	15	19	22,750	43	2	40
2	99	7	2	10	6	11,400	19		12
3	160	6	3	13	25	18,850	32	1	14
4	95	19	3	10	37	11,500	21	1	39
5	37	9	2	9	45	6,950	8	1	32
6	41	8	1	15	40	5,700	9		7
7	112	10	2	17	29	16,650	25		18
8	137	2	4	9	10	17,100	27	1	19
9	150	21	5	1	36	18,650	35	1	40
10	99	7	2	23	16	13,650	22	1	13
11	83	28	3	0	30	14,900	27	1	58
12	76	12	3	2	20	12,800	16	2	20
13	125	12	3	21	0	17,500	37		13
14	57	15	2	12	29	10,150	20	2	23
15	69	14	2	4	27	6,900	9		11
16	27	11	1	13	56	5,750	10		29
17	75	24	3	15	46	16,000	26	2	47
*18	1	.....	.....	.....	34		....		..

* One month.

CHEMICAL ENGINES.	ALARMS ATTENDED		ABSENT FROM STATION			Number of feet of hose laid	Number of tanks used	Number of extinguishers used
	Bells	Stills	Days	Hours	Min.			
1.	115	12	2	11	58	10,800	54	15
2.	41	15	1	14	46	2,200	14	17
3.	46	3	1	22	9	1,500	13	11

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ENGINES.	ALARMS ATTENDED		ABSENT FROM STATION			No. of times engine worked	No. of lines supplied	TIME IN SERVICE AT FIRES	
	Bells	Stills	Days	Hrs.	Min.			Hrs.	Min.
2.	91		1	20	46	3	4	8	35
5.	29		1	3	0	2	3	8	0
8.	84		2	7	50	4	4	5	15
10.	75		1	23	54	2	2	4	20
12.	45		1	13	18	2	2	9	24
14.	40	1	1	16	5	2	3	6	0
16.	20		0	21	58	1	1	9	20

HOOK AND LADDER TRUCKS.	ALARMS ATTENDED		ABSENT FROM STATION			Number of feet of ladders raised	No. t'mes "Aerial" ladder used	No. times "Hangor" ladder used	Number of extinguishers used
	Bells	Stills	Days	Hours	Min.				
1.	104	5	2	22	54	2,311	2		
2.	78	4	3	3	40	3,258	5		31
3.	58	6	2	7	59	1,462		1	27
4.	69	14	2	8	59	1,663		1	11
5.	86	11	3	2	52	2,583		1	23
6.	70	10	2	8	52	1,941	1	1	9
7.	34	5	1	11	23	750		1	16

PROTECTIVE DEPARTMENT.	ALARMS ATTENDED		ABSENT FROM STATION			COVERS SPREAD		No. of extinguishers used
	Bells	Stills	Days	Hrs.	Min.	Roof	Stock	
No. 1 Wagon	191	4	5	17	49	26	420	18
No. 2 Wagon	174	15	8	8	38	11	329	7

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MISCELLANEOUS.	ALARMS ATTENDED.		ABSENT FROM STATION.						
	Bells.	Stills.	Days.	Hours.	Minutes.	Number of Feet of 3½ in. Hose laid.	Number of Hydrant Streams used.	Number of Engine Streams used.	Size of Nozzle.
"Jumbo" No. 1	86		1	4	37	1,850	4	1	1½ in
Water Tower	4		....	5	30	....	....		..

CONCLUSION.

Before concluding this report the Board desire to call attention to the urgent necessity of providing better accommodations for the companies located in the station at the junction of Smith and Orms streets. This station was built in 1875 and is utterly unfit for Fire Department purposes, being much too small for the use of the companies located therein. A two story brick addition was erected in 1885, and is used for Ward Room and Evening School purposes. This portion of the building could be adapted for the use of this department without incurring any great expense, and the Board would recommend that either this plan be adopted or that a lot be purchased in this vicinity and a hook and ladder station be erected thereon.

The completion of the work of securing improved terminal facilities will call for the removal of the Station now located on Exchange Place, and action should be taken which will provide for the erection of a building, suitable for fire department headquarters upon the site near where the cove bell tower now stands. No more desirable location can be named and a station large enough to contain all the apparatus now located at the Exchange Place Station, together with an extra first size engine, should be erected. The fire alarm service should also be removed to this locality and accommodations should be provided for placing

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the offices of the Board of Fire Commissioners in the proposed building. The Board consider that this is a matter which will demand action in the near future and they have therefore brought it to your attention in order that so desirable a location for the purpose indicated may be secured before being assigned to other uses.

In conclusion the Board desire to say, that it is their aim and intention to make the Fire Department as efficient as any in the country. The policy which they heretofore adopted will be continued in the future. Ability, sobriety and efficiency are the qualifications demanded of the members, and appointments and promotions will be made from those whom the Board are convinced possess these qualifications. Every man will be judged solely upon his merits, and such as prove faithful and deserving will receive proper recognition. The Board request that your honorable body will continue to accord to them co-operation and support in the prosecution of their labors, and the successful attainment of the objects desired will surely follow.

Respectfully submitted,

STILLMAN WHITE,
WILLIAM H. LUTHER,
DEXTER GORTON,

Board of Fire Commissioners.

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FIRE DEPARTMENT

OF THE

CITY OF PROVIDENCE.

1896.

BOARD OF FIRE COMMISSIONERS.

OFFICE AT CITY HALL.

STILLMAN WHITE, *Chairman*,
Residence, 47 Park street.
Term expires February, 1898.

WILLIAM H. LUTHER,
Residence, 61 Atlantic avenue.
Term expires February, 1897.

DEXTER GORTON,
Residence, 31 Chestnut street.
Term expires February, 1899.

CLERK
JOHN W. MORROW,
Residence, 171 Prairie avenue.

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CHIEF ENGINEER

GEORGE A. STEERE,

Headquarters, Central Fire Station, Exchange place,

Residence, 75 Broadway.

DEPUTY CHIEF ENGINEER

HOLDEN O. HILL,

Headquarters, Central Fire Station, Exchange place,

Residence, 21 Constitution street.

*ASSISTANT ENGINEERS

GEORGE F. BATTEY,

Headquarters, Station No. 4, Mill street,

Residence, 76 Jewett street.

HORACE P. GRISWOLD,

Headquarters, Station No. 8, Harrison street,

Residence, 12 Plain street.

SUPPLY CLERK

HENRY R. BEEHLER,

Residence, 25 Orms street.

*James M. Baker was appointed permanent Assistant Engineer November 15, 1895 and resigned January 1, 1896.

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WASHINGTON

HOSE COMPANY NO. 1.

HOUSE AT EAST END OF EXCHANGE PLACE.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
1	James M. Curtis	Captain	43	23 Orms street.
10	Thomas F. Sisson	Lieutenant	43	10 Anthony street.
11	Byron C. Howard	Hoseman	28	206 North Main street.
12	James E. Hackett	"	30	8 Hawes street.
13	Thomas H. Mullen	"	36	3 Davis street.
14	Charles A. Cook	"	42	120 Smith street.
15	William J. Sherman	"	27	82 Lydia street.
16	Walter H. Durfee	Driver	42	11 Andrew street.

Four-wheeled Hose Wagon, built by F. P. Pearce & Co., of Providence, R. I., in 1891. Drawn by two horses, carries 800 feet of 2½ inch hose, and weighs, ready for service, 3,200 pounds. Placed in service July 10, 1891.

PIONEER

ENGINE COMPANY NO. 2.

HOUSE CORNER SOUTH MAIN AND COIN STREETS.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
2	Henry A. Wilkey	Captain.	48	173 Brook street.
20	Thomas J. Colburn	Lieutenant	50	65 Sheldon street.
21	Merrill E. Hicks	Engineman	66	2 Gould street.
22	David A. Bigney	Hoseman	31	415 Wickenden street.
23	George T. Lawder	"	37	Fire Station.
24	William H. Collins	"	28	266 Wickenden street.
25	Michael O'Gara	"	34	160 Transit street.
26	Owen McElroy	"	34	91 Lockwood street.
27	George H. Goff	"	35	8 East Beacon street.
28	Daniel R. Munroe	"	28	21 Meeting street.
29	John E. Carlin	Driver of Tender	44	158 Aborn street.
168	Thomas J. Morrissey	Engine Driver	41	Fire Station.

Second-class Piston Engine, built by the La France Fire Engine Co., Elmira, N. Y., in 1890. Drawn by two horses and weighs, ready for service, 8,495 pounds. Placed in service at Station 16, January 1, 1891. Removed to Station 2, January 18, 1892. Also, four-wheeled Hose Wagon, built by Lewis L. Fales, Providence, R. I., in 1892. Drawn by two horses, carries 800 feet of 2½ inch hose and weighs, ready for service, 3,200 pounds. Placed in service June 15, 1892.

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FIRE KING

HOSE COMPANY NO. 3.

HOUSE ON POND STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
3	Oscar F. Millett	Captain	49	232 Lockwood street.
30	Thomas R. Gorton	Lieutenant	39	252 Pearl street.
31	Asa G. Davis	Hoseman	34	146 Clifford street.
32	Bernard F. Sisson	"	30	30 Marlborough street.
33	William F. Maines	"	30	11 Hoyle street.
34	Henry MacLean	"	27	Fire Station.
35	Walter H. Hildreth	"	30	26 Division street.
36	James H. Penney	Driver	34	285 Atwells avenue.

Four-wheeled Hose Wagon, built by Archibald Martin, Providence, R. I., in 1895. Drawn by two horses, carries 600 feet of 2½-inch hose, and weighs, ready for service 3,600 pounds. Placed in service June 18, 1895.

FRANKLIN

HOSE COMPANY NO. 4.

HOUSE ON MILL STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
4	Reuben D. Weekes	Captain	36	141 Doyle avenue.
40	Herman H. Fischer	Lieutenant	52	31 Sheldon street.
41	George H. Johnson	Hoseman	39	13 Foster street.
42	Christopher J. Read, Jr.	"	27	608 Chalkstone avenue.
43	James W. Crawford	"	39	9 Palmer street.
44	Charles S. Irwin	"	35	46 Lippitt street.
45	George C. Woodbury	"	55	14 Benefit street.
46	Harry E. Carpenter	Driver	25	13 Ringgold street.

Four-wheeled Hose Wagon, built by Archibald Martin, Providence, R. I., in 1890. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,150 pounds. Placed in service November 28, 1890.

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NIAGARA

ENGINE COMPANY NO. 5.

HOUSE CORNER EAST AVENUE AND OLNEY STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
5	William F. Gavitt	Captain	39	56 Camp street.
50	Walter L. Damon	Lieutenant	36	46 Howell street.
51	James Doran	Engineman	31	28 Creighton street.
52	John H. Goulding	Hoseman	56	12 Jenkins street.
53	Thomas Ryan	"	39	114 Bates street.
54	Charles H. Handy	"	39	117 Woodward Road.
55	John R. Babcock	Engine Driver	45	Fire Station.
56	Charles H. McCoid	Driver of Tender	25	163 Lippitt street.
57	Daniel Burdick	Call Hoseman	46	152 Rochambeau avenue.
58	John G. McIntosh	" "	47	215 Doyle avenue.
59	Benjamin N. Brown	" "	38	644 North Main street.

Piston Engine, built by Cole Brothers, Pawtucket, R. I., in 1866. Rebuilt by the same firm in 1891. Formerly in service at the station at the corner of North Main street and Doyle avenue. Removed to present location January 18, 1892. Drawn by two horses, and weighs, ready for service, 7,330 pounds. Also four-wheeled Hose Wagon, built by Lewis L. Fales, Providence, R. I., in 1892. Drawn by two horses, carries 900 feet of $2\frac{1}{2}$ inch hose, and weighs, ready for service, 3,300 pounds. Placed in service July 31, 1892.

WATER WITCH

HOSE COMPANY NO. 6. CHEMICAL ENGINE NO. 2.

HOUSE ON BENEVOLENT STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
6	Thomas W. D. Reynolds	Captain	53	99 Benevolent.
60	William H. Salisbury	Lieutenant	49	98 John street.
61	John H. Witchell	Hoseman	44	66 Hope street.
62	George R. Bigney	"	26	9 Canal street.
63	Frank K. Wilkey	"	25	173 Brook street.
64	Thomas F. Carey	"	39	75 Brook street.
65	Edmund H. Webber	Driver Hose Wgn.	28	90 Benevolent street.
66	Nicholas A. Falck	Driver Chemical	28	369 South Main street.
67	Daniel P. Douglass	Call Hoseman	45	172 Williams street.
68	Granville M. Borden	" "	44	175 Brook street.
69	Edward D. Fuller	" "	33	283 Brook street.

Four-wheeled Hose Wagon, built by Archibald Martin, Providence, R. I., in 1895 Drawn by two horses. Carries 800 feet of $2\frac{1}{2}$ inch hose, and weighs, ready for service, 3,660 pounds. Placed in service May 9, 1895. Sixty-gallon Double Tank Chemical Engine, built by the Babcock Fire Extinguisher Manufacturing Co., of Chicago, Ill., in 1882. Drawn by two horses, carries 250 feet of $\frac{3}{4}$ inch hose, and weighs, ready for service, 3,950 pounds. Placed in service November 20, 1882.

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OCEAN

HOSE COMPANY NO. 7. CHEMICAL ENGINE NO. 1.
HOUSE ON RICHMOND STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
7	Thomas F. McNeal	Captain	43	13 Foster street.
70	Abner G. Allen	Lieutenant	34	8 Courtright street.
71	Frank M. Tillinghast	Hoseman	29	107 Beacon avenue.
72	David W. Capron	"	35	10 Hospital street.
73	Mahlon D. Brown	"	37	60 Marlborough street.
74	George A. Capron	"	36	Fire Station.
75	William E. Sherman	"	28	4 Fletcher avenue.
76	Andrew J. Fisher	"	22	Engine Station.
77	Patrick H. Hackett	"	25	8 Hawes street.
78	Everett E. Potter	Driver Chemical	30	Fire Station.
79	Ellsworth E. Blackinton	Driver of Hose	35	10 Bassett street.

Four-wheeled Hose Wagon, built by Lewis L. Fales, Providence, R. I., in 1892. Drawn by two horses, carries 700 feet of 2½-inch hose, and weighs, ready for service, 3,340 pounds. Placed in service March 2, 1892.

Sixty-Gallon Double-Tank Chemical Engine, built by the Babcock Fire Extinguisher Manufacturing Co., of Chicago, Ill., in 1882. Drawn by two horses, carries 250 feet of ¾-inch hose, and weighs, ready for service, 3,900 pounds. Placed in service November 18, 1882.

ATLANTIC

ENGINE COMPANY NO. 8.
HOUSE ON HARRISON STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
8	Joseph H. Penno	Captain	53	945 Westminster street.
80	Frank F. Taber	Lieutenant	35	16 Tobey street.
81	Thomas Brannigan	Engineman	51	52 Harrison street.
82	Stephen C. Miller	Hoseman	33	58 Harrison street.
83	John W. Booth	"	31	1135 Westminster street.
84	Patrick J. Smith	"	35	164 Carpenter street.
85	Frederick C. Walden	"	23	30 Harrison street.
86	William E. Viall	"	32	313 Prairie avenue.
87	Nicholas T. Feeley	Engine Driver	36	30 Constitution street.
88	John L. Mathewson	Driver of Tender	39	110 Hudson street.

Third-class Rotary Engine, built by the Silsby Manufacturing Company, Seneca Falls, N. Y., in 1890. Drawn by two horses, and weighs, ready for service, 6,620 pounds. Placed in service June 10, 1890. Also, four-wheeled Hose Wagon, built by Lewis L. Fales, Providence, R. I., in 1892. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,000 pounds. Placed in service July 1, 1892.

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JOHN W. TILLINGHAST

HOSE COMPANY NO. 9.

HOUSE CORNER ATWELLS AVENUE AND AMERICA STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
9	Philip W. Kelly	Captain	59	58 Kenyon street.
90	William W. Kelly	Lieutenant	34	58 Kenyon street.
91	John H. Hall	Hoseman	27	51 Harrison street.
92	Herbert B. Kelly	"	27	111 Sutton street.
93	William E. Gardiner	"	28	44 America street.
94	Frank E. Bailey	"	31	133 Atwells avenue.
95	Harry R. Angell	"	23	479 Washington street.
96	Charles B. Atwood	Driver	32	11 Bond street.

Four-wheeled Hose Wagon, built, by F. P. Pearce, Providence, R. I., 1896. Drawn by two horses, carries 800 feet of 2½ inch hose, and weighs, ready for service, 3,560 pounds. Placed in service February 19, 1896.

WASHINGTON

ENGINE COMPANY NO. 10.

HOUSE ON BURNSIDE STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
105	John H. Capron	Captain	42	88 Burnside street
150	William F. Coffin	Lieutenant	45	92 Ocean street.
151	Francis D. Chester	Engineman	67	397 Prairie avenue.
152	George H. Simmons	Hoseman	35	14 Salisbury street.
153	John B. Miller	"	32	203 Oxford street.
154	Samuel Loxley	"	27	408 Plain street.
155	Byron I. Keech	Engine Driver	42	433 Prairie avenue.
156	Thomas H. Jones	Driver of Tender.	28	456 Prairie avenue.
157	Clinton W. Caswell	Call Hoseman	33	150 Burnside street.

Third-class Rotary Engine, built by the American Fire Engine Company, Seneca Falls, N. Y., in 1893. Drawn by two horses, and weighs, ready for service, 6,000 pounds. Placed in service February 8, 1893. Also, four-wheeled Hose Wagon, built by John G. McIntosh, Providence, R. I., in 1893. Drawn by two horses, carries 800 feet of 2½ inch hose, and weighs, ready for service, 3,200 pounds. Placed in service July 18, 1893.

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ELMWOOD

HOSE COMPANY NO. 11.

HOUSE ON OAKLAND STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
106	Benjamin F. Harrington	Captain	39	166 Stanwood street.
160	Walter A. Vaughan	Lieutenant	28	25½ Burnett street
161	William A. Orr	Hoseman	33	648 Potters avenue.
162	Frederic H. Field	"	66	144 Lexington avenue.
163	William A. Millard	"	36	43 Bellevue avenue.
164	Albert A. Holbrook	"	23	672 Public street.
165	Clifton A. Spafford	"	36	316 Thurber's avenue.
166	Edward F. Curtis	Driver	26	648 Potters avenue.

Four-wheeled Hose Wagon, built by Archibald Martin of Providence, R. I., in 1895. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,600 pounds. Placed in service May 18, 1895.

STILLMAN WHITE

ENGINE COMPANY NO. 12.

HOUSE JUNCTION SMITH AND ORMS STREETS.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
107	Edwin G. Andrews	Captain	31	86 Bernon street.
170	Horace S. Blake	Lieutenant	38	86 Lydia street.
171	Benjamin F. Clark	Engineman	49	68 Bernon street.
172	Thomas H. Jenckes	Hoseman	34	107 Jewett street.
173	Robert H. Waller	"	30	42 Pekin street.
174	Albert J. Fleckhamer	"	42	19 Zone street.
175	Freeman A. Richardson	"	36	456 Chalkstone avenue.
176	Frank H. Linnell	Engine Driver	28	5 Randall street.
177	Leprelett W. Esten	Driver of Tender	39	316 Orms street.
178	George E. Jenckes	Call Hoseman	45	107 Jewett street.

Piston Engine, built by Cole Brothers, Pawtucket, R. I., in 1871. Drawn by two horses, and weighs, ready for service, 7,250 pounds. Also, four-wheeled Hose Wagon, built by John G. McIntosh, Providence, R. I., in 1893. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,200 pounds. Placed in service July 28, 1893.

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GOOD WILL

HOSE COMPANY NO. 13.

HOUSE ON CENTRAL STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
108	Hiram D. Butts	Captain	70	3 Tanner street.
180	Daniel A. Nichols	Lieutenant	30	158 Clifford street.
181	Owen Trainor	Hoseman	42	90 Diamond street.
182	Joseph Devine	"	39	49 Central street.
183	Robert Bucklin	"	30	66 Tanner street.
184	Edward H. Washington	"	30	293 Pearl street.
185	George Barbour	Driver	40	214 Waldo street.
186	William H. Porter	Call Hoseman	50	403 Fountain street.
187	George D. Adams	" "	32	141 Pearl street.

Four-wheeled Hose Wagon, built by Lewis L. Fales, Providence, R. I., in 1892. Drawn by two horses, carries 600 feet of 2½ inch hose, and weighs, ready for service, 3,000 pounds. Placed in service October 4, 1892.

PUTNAM

ENGINE COMPANY NO. 14.

HOUSE ON PUTNAM STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
189	Lewis A. Cutler	Captain	45	161 Williams street.
190	Peter Greene	Lieutenant	44	90 Academy avenue.
191	Robert G. Haskins	Engineman	40	4 Kepler street.
192	Isaac L. Blackmar	Hoseman	57	819 Atwells avenue.
193	Nicholas Waterman	"	46	Fire Station.
194	Patrick Kelley	Engine Driver	27	52 Sears avenue.
195	James T. Goff	Driver of Tender	27	3 Canton street.
196	John F. Chapman	Call Hoseman	36	126 Julian street.
197	John B. Corcoran	" "	38	163 Amherst street.
198	James F. Maginn	" "	40	99 Putnam street.
199	James F. Kildea	" "	35	102 Putnam street.

Third size, Piston Engine, built by the La France Fire Engine Company, Elmira, N. Y., in 1893. In reserve until August, 1895, when it was placed in service with Engine Co. No. 14. Drawn by two horses, and weighs, ready for service, 6,560 pounds. Also, four-wheeled Hose Wagon, built by John G. McIntosh, Providence, R. I., in 1893. Drawn by two horses, carries 800 feet of 2½ inch hose, and weighs, ready for service, 3,200 pounds. Placed in service May 29, 1893.

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WHAT CHEER

HOSE COMPANY NO 15.

HOUSE ON WICKENDEN STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
200	Thomas H. Duffy	Captain	37	21 Armstrong avenue
201	Charles T. Witchell	Lieutenant	40	74 Armstrong avenue
202	Henry Charlwood	Hoseman	45	23 Lockwood street.
203	Frank A. Scott	"	44	266 Wickenden street.
204	Jeremiah Splan	"	37	122 Tockwotten street.
205	William S. Fenner	"	34	154 Transit street.
206	John L. Keith	Driver	37	153 Point street.
207	William Patterson	Call Hoseman	54	261 Wickenden street.
208	William J. Gray	" "	26	16 Governor street.

Four-wheeled Hose Wagon, built by Lewis L. Fales, Providence, R. I., in 1892. Drawn by two horses, carries 800 feet of 2½ inch hose, and weighs, ready for service, 3,200 pounds. Placed in service March 25, 1892.

ENGINE COMPANY NO. 16.

HOUSE, CORNER BRANCH AVENUE AND CHARLES STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
230	Lewis A. Lusignan	Captain	36	383 Branch avenue.
231	Henry M. Briggs	Lieutenant	36	66 Chatham street.
232	William H. Glassgow	Engineman	55	359 Branch avenue.
233	Walter Sonner	Hoseman	28	29 Mowry street.
234	William J. Sumption	"	34	53 Langdon street.
235	Charles H. Shippee	"	36	206 Smith street.
236	John J. O'Connor	Engine Driver	30	Cor. Ch'rles & Hawkins sts.
97	John C. Kennedy	Driver of Tender	41	470 Branch ave.

Third-class Rotary Engine, built by the Silsby Manufacturing Company, Seneca Falls, N. Y., in 1891. Drawn by two horses, and weighs, ready for service, 6,640 pounds. Placed in service May 9, 1891. Also, four-wheeled Hose Wagon, built by Moulton & Son, Providence, R. I., in 1885, rebuilt by F. P. Pearce & Co. in 1891, and remodeled by Lewis L. Fales, Providence, R. I., in 1892. Formerly in service at Station No. 2. Placed in service with Engine Co. No. 16, August 23, 1892. Drawn by two horses, carries 700 feet of 2½ inch hose, and weighs, ready for service, 2,800 pounds.

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HOSE COMPANY NO. 17.

HOUSE, CORNER NORTH MAIN STREET AND DOYLE AVENUE.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
240	William H. Garvin	Captain	47	167 Orms street.
241	James H. Dean	Lieutenant	40	84 Doyle avenue.
242	Charles W. Gillooly	Hoseman	44	585 Douglas avenue.
243	John J. Banks	"	33	167 Orms street.
244	Robert P. Patterson	"	32	76 Pleasant street.
245	Michael H. Cavey	"	43	74 East avenue.
246	Edward J. Nagle	"	28	59 Commodore street.
247	George A. Bugbee	Driver	46	Rear 19 Liberty street.

Four-wheeled Hose Wagon, built by F. P. Pearce & Co., Providence, R. I., in 1891. Drawn by two horses, carries 800 feet of 2½ inch hose, and weighs, ready for service, 3,570 pounds. Placed in service January 18, 1892.

OLIVER E. GREENE

HOSE COMPANY NO. 18.

HOUSE, JUNCTION BROAD AND RUGBY STREETS.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
260	William H. Johnson	Captain	59	1350 Broad street.
261	John Hutchinson	Lieutenant	33	899 Broad street.
262	Henry B. Hall	Hoseman	47	130 Oxford street.
263	Joseph W. Johnson	"	34	251 Ohio avenue.
264	Nahum E. Willard	"	26	Fire Station.
265	Francis H. Morton, Jr	"	21	271 Ohio avenue.
266	John Regan	"	34	32 Cass street.
267	John A. Worth	Driver	41	13 Babcock street.

Steel Frame Combination Hose Wagon and Chemical Engine, built by the Fire Extinguisher Manufacturing Company, Chicago, Ill., in 1895. Drawn by two horses, carries 800 feet of 2½ inch hose, is equipped with a 50 gallon chemical tank, and weighs, ready for service, 4,940 pounds. Placed in service November 30, 1895.

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HAYES

HOOK AND LADDER COMPANY NO 1.

HOUSE AT EAST END OF EXCHANGE PLACE.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
39	Joseph W. Carpenter	Captain	43	151 Doyle avenue.
101	Joseph D. Kent	Lieutenant	43	7 Burrill street.
110	George A. Brown	Ladderman	42	205 Orms street.
111	William Burke	"	35	125 Orms street.
112	Charles R. Wyatt	"	39	16 Arnold street.
113	Hugh McCartin	"	35	242 Atwells avenue.
114	William H. Buffum	"	51	401 Orms street.
115	John W. McKenzie	"	34	180 Potters avenue.
116	Clement D. Pelrine	"	23	370 Richmond street.
117	William E. Gilland	"	33	37 Blackstone Boulevard
118	Charles W. Sherman	"	35	425 Richmond street.
119	Howard E. Sherburne	Driver	35	191 Sherburne street.

First-size Hayes Truck, built by the La France Fire Engine Company, Elmira, N. Y., in 1884. Drawn by three horses, and weighs, ready for service, 8,000 pounds. Longest ladder, 85 feet extension. Placed in service March 20, 1884.

HAYES

HOOK AND LADDER COMPANY NO. 2.

HOUSE ON HARRISON STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
102	Frank E. Atkinson	Captain	39	6 Dawson street.
120	Charles O. Messinger	Lieutenant	40	44 Brighton street.
121	Henry W. Irwin	Ladderman	37	64 Dexter street.
122	Andrew C. Wrisley	"	33	1111 Westminster street.
123	Frank L. Thomas	"	36	16 Hawthorne street.
124	Frank A. Eldred	"	22	57 Federal street.
125	Isaac W. Wyatt	"	35	26 Division street.
126	George W. Harding	"	37	28 Wilson street.
127	John T. O'Connor	Driver	36	188 Bridgham street.
128	Solomon F. Searll	Call Ladderman	54	20 Groton street.
129	Alexander M. Craig	" "	32	114 Lilac street.

Second-size Hayes Truck, built by the La France Fire Engine Co., Elmira, N. Y., in 1889. Placed in service January 1, 1890. Wrecked by falling walls at the fire on the premises of the J. B. Barnaby Co., December 13, 1890. Rebuilt by the La France Fire Engine Co., and placed in service February 12, 1891. Drawn by three horses, and weighs, ready for service, 7,000 pounds. Longest ladder, 65 feet extension.

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UNION

HOOK AND LADDER COMPANY NO. 3.

HOUSE, JUNCTION SMITH AND ORMS STREETS.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
103	James C. Hubbard	Captain	49	295 Smith street.
130	George Goulding	Lieutenant	44	221 Orms street.
131	Edwin H. Day	Ladderman	54	23 Candace street.
132	Thomas H. Gibbons	"	34	100 Lydia street.
133	William J. Young	"	37	39 Ruggles street.
134	William H. Holbrook	"	49	283 Smith street.
135	Thomas E. Crockett	"	41	58 Felix street.
136	William A. Berry	Driver	31	21 Candace street.
137	William Dunlap	Call Ladderman	42	316 Orms street.
138	George M. Gardiner	" "	40	26 Pekin street.
139	Frederic L. Smith	" "	35	114 State street.

Roller Frame Truck, built by Ryan Brothers, Boston, Mass., in 1882. Drawn by two horses, and weighs, ready for service, 6,575 pounds. Longest ladder, 50 feet Bangor Extension. Placed in service July 14, 1882.

JOHN B. CHACE

HOOK AND LADDER COMPANY NO. 4.

HOUSE ON WICKENDEN STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
104	Adelbert A. Hopkins	Captain	41	80 Ship street.
140	Edmund B. Peck	Lieutenant	48	189 Wickenden street.
141	William S. Robinson	Ladderman	34	32 Arnold street.
142	James Hall	"	30	230 Wickenden street.
143	Frank Kenney	"	38	93 South street.
144	Charles E. Brown	"	36	37 Armstrong avenue
145	Joseph F. McDonald	"	24	464 Wickenden street.
146	Martin Kane	Driver	31	154 Transit street.
147	Thomas M. Dawson	Call Ladderman	46	39 Sheldon street.
148	Gordon Kerr	" "	48	28 Thayer street.
149	John R. Sherman	" "	41	201 Wickenden street.

Roller Frame Truck, built by Moulton & Remington, Providence, R. I., in 1866. In service with Hook and Ladder Co. No. 1 from 1866 to 1875. In reserve from 1875 to June 1, 1877, when it was placed in service with Hook and Ladder Co. 4. Drawn by two horses, and weighs, ready for service, 5,250 pounds. Longest ladder 50 feet, Bangor Extension.

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WILLIAM H. LUTHER

HOOK AND LADDER COMPANY NO. 5.

HOUSE, CORNER PUBLIC AND BURNSIDE STREETS.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
47	Benson W. Johnson	Captain	64	43 Potters avenue.
210	James R. Davis	Lieutenant	45	35 Chester avenue.
211	Fred A. Wallace	Ladderman	41	376 Public street.
212	Charles H. Carpenter	"	29	23 Salisbury street.
213	Charles W. Moore	"	37	82 Bogman street.
214	Gilbert S. Inman	"	24	30 Laura street.
215	Otis P. Dill	"	27	145 Potters avenue.
48	Clarence E. Horton	Driver	32	91 Potters avenue.
216	Crawford A. Cornell	Call Ladderman	41	475 Public street.
217	George H. Thurston	" "	32	80 Ship street.
218	Edward J. Hall	" "	24	130 Oxford street.

Roller Frame Truck, built by Moulton & Son, Providence, R. I., in 1885. Drawn by two horses, and weighs, ready for service, 5,000 pounds. Longest ladder, 50 feet. Bangor Extension. Placed in service April 1, 1885.

HAYES

HOOK AND LADDER COMPANY NO. 6.

HOUSE, CORNER ATWELLS AVENUE AND AMERICA STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
220	William F. Smith	Captain	34	47 Harrison street.
221	William E. Sullivan	Lieutenant	33	157 Federal street.
222	John E. Meledy	Ladderman	33	100 Gesler street.
223	Michael J. Dugan	"	32	178 Amherst street.
224	Michael H. Farrell	"	32	181 Julian street.
225	Joseph H. Davis	"	30	24 Africa street.
226	Robert H. McDonald	"	25	65 Brayton avenue.
227	Christopher Carpenter	"	39	46 Vernon street.
228	James Mulgrew	"	25	Fire Station.
229	James McCartin	Driver	42	39 Ring street.

Second-size Hayes Truck, built by the La France Fire Engine Company, Elmira, N. Y., in 1892. Drawn by three horses, and weighs, ready for service, 7,500 pounds. Longest ladder, 65 feet extension. Placed in service September 1, 1892.

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HAYES

HOOK AND LADDER COMPANY NO. 7.

HOUSE CORNER EAST AVENUE AND OLNEY STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
250	Charles J. Connor	Captain	42	12 Benefit street.
251	John F. Stackpole	Lieutenant	46	25 East avenue.
252	George H. Cooke	Ladderman	29	121 Pleasant street.
253	Walter A. Manchester	"	29	73 Carrington avenue.
254	John D. Murphy	"	27	Fire Station.
255	Benedict P. Grant	"	30	71 Carrington avenue.
256	Edward S. Doherty	"	31	91 Lippitt street.
257	James P. O'Sullivan	Driver	32	114 Bates street.

Third-size Hayes Truck, built by the La France Fire Engine Company, Elmira, N. Y., in 1891. Drawn by two horses. Longest ladder, 60 feet extension. Placed in service January 18, 1892.

CHEMICAL ENGINE COMPANY NO. 3.

HOUSE ON MANTON AVENUE.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
230	Thomas McCoid	Captain	38	905 Manton avenue.
231	James Dowling	Lieutenant	40	1 Dyerville road.
232	William Benford	Hoseman	34	755 Manton avenue.
233	Frederick L. Capron	Driver	57	703 Manton avenue.

Sixty-Gallon Double-Tank Engine, of the "Champion" pattern, built by the Fire Extinguisher Manufacturing Co., of Chicago, Ill., in 1888. Drawn by two horses, carries 250 feet of $\frac{3}{4}$-inch hose, and weighs, ready for service, 4,160 pounds. Placed in service March 1, 1889.

JUMBO

HOSE WAGON NO. 1.

LOCATED ON HAYMARKET STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
18	Leander D. Dawley	Lieutenant	49	448 Benefit street.
19	Frank N. Benchley	Driver	42	409 Benefit street.

Four-wheeled Hose Wagon, built by Archibald Martin, Providence, R. I., in 1887. Drawn by one horse, carries 950 feet of $3\frac{1}{2}$ inch hose, and weighs, ready for service, 3,800 pounds. Placed in active service July 30, 1891.

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PROVIDENCE PROTECTIVE COMPANY NO. 1.

HOUSE ON RICHMOND STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
	Charles H. Swan	Captain	58	277 Friendship street.
	David G. Knott	Lieutenant	41	220 Friendship street.
	James R. McLean	Coverman	33	39 Maple street.
	David C. Carey	"	31	248 Carpenter street.
37	George T. Lonergan	Driver	29	87 Fifield street.
100	Manuel Burgess	"	33	119 Point street.
	Herbert L. Burrows	Call Coverman	27	61 Elm street.
	James W. Miller	" "	35	57 Francis street.
	Ernest R. Quimby	" "	24	631 North Main street.

No. 1 Wagon, built by J. Jeremiah, of New York, N. Y., in 1874. Rebuilt in 1890 by L. L. Fales, of Providence, R. I. Drawn by two horses, carries 34 tarpaulins, and weighs, ready for service, 3,700 pounds. Placed in service at Hose 4 Station, Haymarket street, on Exchange place, February 1, 1875. Removed to Richmond street, March 9, 1891.

No. 2 Wagon, built by Archibald Martin, of Providence, R. I., in 1891. Drawn by two horses, carries 19 tarpaulins, and weighs, ready for service, 2,700 pounds. Placed in service April 1, 1891.

FIRE ALARM TELEGRAPH.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
	Charles G. Cloudman	Superintendent	58	31 Hospital street.
239	Arthur D. Sayward	Assistant Supt	29	116 Clifford street.
248	Abner S. Tompkins	Lineman	28	75 Doyle avenue.
249	Herbert H. Totten	"	33	135 Burnside street.
17	Nathaniel G. Totten	Batteryman	72	135 Burnside street.

Gamewell Automatic System. Adopted December, 1870.

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SUMMARY OF EXPENDITURES

COMPANY.	Salaries.	Grain.	Hay & Straw.	Gas.	Fuel.	Repairs.	Shoeing.
Hose No. 1	$8,724 47	$104 49	$111 00	$140 53	$87 32	$24 00	$35 50
Engine No. 2	12,461 37	181 25	246 42	210 86	139 00	98 50	85 50
Hose No. 3	8,130 58	90 40	118 65	116 84	101 25	19 50	51 49
Hose No. 4	8,857 43	99 57	229 07	199 87	130 50	114 62	44 56
Engine No. 5	9,118 61	175 60	198 75	125 81	172 40	352 01	89 87
Hose No. 6	6,153 67	65 89	97 37	74 52	101 35	66 50	34 25
Hose No. 7	8,417 46	91 90	99 39	63 25	85 11	76 04	47 72
Engine No. 8	9,265 65	192 38	258 40	104 65	175 23	125 28	82 10
Hose No. 9	8,085 00	94 26	125 00	167 56	128 25	44 60	42 50
Engine No. 10	8,523 60	197 14	239 63	83 49	114 00	150 46	72 75
Hose No. 11	7,292 18	82 94	88 65	149 96	116 00	18 50	39 75
Engine No. 12	8,902 56	189 93	252 48	98 55	127 44	186 84	72 00
Hose No. 13	7,959 12	109 08	76 57	120 75	63 00	95 81	58 75
Engine No. 14	8,445 08	191 27	221 47	191 59	124 00	116 72	79 25
Hose No. 15	7,218 40	110 83	169 67	176 94	.....	16 70	35 62
Engine No. 16	8,329 82	215 46	283 21	65 55	167 88	65 62	78 35
Hose No. 17	8,696 69	111 70	176 14	112 93	143 85	73 67	51 18
Hose No. 18	670 87	12 65	54 42	10 12	109 50	7 75	.....
H. and L. No. 1	12,091 95	156 63	166 50	140 53	87 32	101 29	60 01
H. and L. No. 2	9,550 68	154 36	261 24	58 19	112 50	211 71	57 70
H. and L. No. 3	9,343 91	94 96	126 24	98 56	101 25	13 45	39 36
H. and L. No. 4	9,314 26	111 82	170 13	151 31	99 00	33 32	55 21
H. and L. No. 5	9,402 45	108 30	152 47	130 87	108 00	182 49	36 00
H. and L. No. 6	10,625 21	122 47	165 72	167 56	128 25	126 76	56 50
H. and L. No. 7	9,119 50	103 31	196 14	125 81	81 00	21 40	58 17
Chemical No. 1	3,220 03	91 89	99 38	63 25	85 11	167 22	47 73
Chemical No. 2	3,201 92	80 41	119 00	74 52	101 35	49 85	36 00
Chemical No. 3	4,486 93	91 45	117 11	66 70	90 00	187 75	37 25
Protective No. 1	2,017 82	211 60	255 25	126 50	170 21	28 88	95 45
Fire Alarm	6,119 70	122 52	124 88	16 91	36 00	31 95	26 25
Jumbo Wagon	2,195 22	54 91	62 44	10 92	13 50	123 27	35 10
Water Tower	551 18	87 50	64 30	.....	.....	2 80	33 70
Chief and Assistants	5,634 08	214 05	228 96	140 53	87 33	223 33	96 01
Board Fire Comm'rs	3,141 24	.....	.....	.....	.....	.....	.....
Miscellaneous	.....	31 00	39 03	.....	4 50	150 20	14 00
Total	$245,268 64	$4,152 92	$5,395 08	$3,585 93	$3,391 40	$3,308 79	$1,785 60

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BY COMPANIES.

Laundry.	Ice.	Veterinary Attendance.	Extra Horses	Horses.	Apparatus and Equipments.	Bedding and Toweling.	Other Expenses.	TOTAL.
$54 55	$7 65	$14 00	.....	$135 00	.....	$12 00	$62 52	$9,513 03
59 63	7 65	28 00	$45 50	.....	$30 00	20 25	66 08	13,680 01
40 86	10 05	7 00	.....	185 00	417 50	.....	46 64	9,335 76
51 53	6 10	11 00	7 00	.....	30 00	.....	54 50	9,835 75
42 74	7 65	28 00	25 51	.....	13 85	20 00	63 38	10,434 18
25 57	7 65	52 00	9 00	250 00	387 50	.....	49 55	7,374 82
45 09	10 05	18 00	.....	62 50	30 00	51 92	47 28	9,145 71
38 32	6 10	59 50	48 00	.....	70 25	59 50	82 09	10,567 45
36 99	6 10	16 00	.....	.....	.....	.....	59 08	8,805 34
43 52	10 05	9 00	31 50	50 00	30 00	20 00	61 55	9,636 69
37 03	10 05	13 00	11 00	370 00	447 50	13 87	64 17	8,754 60
41 16	7 65	20 00	38 50	.....	.....	38 75	102 45	10,078 31
28 80	10 05	13 00	.....	.....	30 00	.....	44 05	8,608 98
42 72	7 65	20 00	38 50	.....	30 00	.....	68 91	9,577 16
37 57	7 65	41 00	1 00	240 00	.....	52 65	60 84	8,168 87
36 19	.....	38 00	25 08	240 00	30 00	.....	62 73	9,637 89
49 17	6 10	49 00	.....	140 00	30 00	.....	63 76	9,704 19
2 79	.....	4 00	.....	400 00	1,712 35	96 00	201 67	3,282 12
75 53	7 65	29 00	.....	375 00	.....	.....	79 48	13,370 89
47 03	6 10	14 00	.....	.....	.....	43 90	62 50	10,579 91
39 64	7 65	23 00	42 00	.....	.....	.....	52 73	9,982 77
40 70	7 65	69 00	49 00	195 00	.....	.....	51 43	10,347 83
43 33	10 05	20 00	31 50	200 00	.....	64 05	59 58	10,549 09
52 96	6 10	23 50	.....	200 00	103 00	.....	86 42	11,864 45
47 78	7 65	29 00	25 51	285 00	27 00	.....	85 76	10,213 03
16 90	.....	6 00	.....	.....	.....	19 48	42 58	3,859 57
14 77	.....	.....	.....	.....	.....	.....	38 96	3,716 78
21 43	.....	27 00	.....	.....	.....	.....	50 58	5,176 20
51 63	10 05	2 00	.....	.....	.....	44 85	42 76	3,057 00
10 35	5 65	4 00	.....	100 00	.....	.....	3,778 10	10,376 31
12 83	.....	7 00	.....	.....	175 00	.....	20 72	2,710 91
5 10	.....	.....	.....	.....	.....	.....	.....	744 58
8 00	7 65	23 00	.....	369 00	545 00	.....	231 20	7,808 14
.....	.....	.....	.....	.....	.....	.....	26 25	3,167 49
.....	.....	67 00	.....	239 50	8,069 90	231 26	840 80	9,687 19
$1,202 21	$204 40	$784 00	$428 60	$4,036 00	$12,208 85	$788 48	$6,811 10	$293,352 00

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PROVIDENCE ASSOCIATION OF FIREMEN FOR MUTUAL ASSISTANCE.

OFFICERS FOR THE YEAR 1896.

GEORGE F. BATTEY, *President*,
JAMES H. DEAN, *Vice-President*.
JOHN HUTCHISON, *Secretary*,
CHARLES H. SWAN, *Treasurer*.

RELIEF COMMITTEE

John Hutchison, Charles H. Swan, David W. Capron.

RESOURCE COMMITTEE

John E. Meledy, James H. Dean, Walter A. Vaughan.

FINANCE COMMITTEE

Solomon F. Searll, George H. Thurston, Edwin H. Day.

BURIAL LOT COMMITTEE

George H. Johnson, Byron C. Howard, Edward S. Doherty.

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TREASURER'S REPORT.

DR.

December 31, 1894, Balance in Treasurer's hands.	$1,936 26	
Interest and dividends	40 00	
Dues	139 50	
In Savings Bank	700 00	
		$2,815 76

CR.

Paid for sickness and injuries	$754 01	
" medicines and medical services	378 15	
Donations to widows	312 00	
Printing and stationery	14 80	
Donations	250 00	
Deposited in Savings Bank	1,040 00	
Use of Firemen's Hall	3 00	
Balance in hands of Treasurer, December 31, 1895.	63 80	
		$2,815 76

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ASSETS JANUARY 1, 1896.

Cash deposited in Mechanics Savings Bank.....	$670 00	
" " Peoples Savings Bank.....	670 00	
" " Citizens " "	1,000 00	
Cash in hands of Treasurer.....	63 80	
		$2,403 80

PELEG GARDNER WIDOW AND ORPHAN FUND.

Sixteen shares National Bank of North America, par value $50.....	$800 00	
Cash deposited in Citizens Savings Bank.....	525 29	
" in hands of Treasurer, December 31, 1895...	12 00	
		$1,337 29
Total assets.....		$3,741 09

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PROVIDENCE PERMANENT FIREMEN'S RELIEF ASSOCIATION.

OFFICERS FOR THE YEAR 1896-97.

BENJAMIN F. HARRINGTON, *President.*
THOMAS F. McNEAL, *Vice-President.*
WILLIAM H. JOHNSON, *Secretary.*
HOLDEN O. HILL, *Treasurer.*

RESOURCE COMMITTEE.

Thomas R. Gorton, *Chairman.*

Herbert B. Kelly,	William Benford,	Byron C. Howard,
Stephen C. Miller,	James R. Davis,	Frank K. Wilkey.

FINANCE COMMITTEE.

Thomas F. McNeal, *Chairman.*

Frank A. Scott, Thomas J. Colburn.

RELIEF COMMITTEE.

Isaac W. Wyatt, *Chairman.*

William J. Sumption, Martin Kane.

TREASURER'S REPORT.

RECEIPTS.

Amount of fund, April 1, 1895		$18,075 55
Dues from members	$1,614 00	
Assessment for death benefits	681 00	
Interest on investments	763 38	
On note to High Street Bank	1,000 00	
Donations	125 00	
Net proceeds, seventh annual ball	2,584 73	
Balance proceeds, sixth annual ball	4 00	
Due Treasurer	27 39	
Increase in value of shares, Roger Williams Savings Fund and Loan Association	53 90	6,853 40
		$24,928 95

EXPENDITURES.

Benefits, sick and injured members	$2,066 02	
Death benefits	1,400 00	
Paid note High Street Bank	1,004 58	
Printing and stationery	5 70	
Paid Treasurer	27 39	4,503 69
Amount of fund April 7, 1896		$20,425 26

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ESTIMATES

OF THE

RECEIPTS AND EXPENDITURES

OF THE

CITY OF PROVIDENCE,

FOR THE

FINANCIAL YEAR ENDING SEPTEMBER 30,

1897.

REPORTED BY THE CITY AUDITOR, MARCH 16, 1896.



REMINGTON PRINTING CO., CITY PRINTERS,
63 Washington Street,
1896.

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Extracts from Chapter 14, of the Ordinance in Relation to Finances.

Section 21. The city auditor * * * * shall annually, on or before the third Monday in March, present to the city council an estimate, in print, of the amount of money necessary to be raised during the financial year, under the respective heads of appropriations, together with an estimate of the receipts from all other sources than taxes. In order to aid the city auditor in making such estimates, the board of aldermen, having charge of the Dexter Asylum, the poor department and bridges; the overseer of the poor and the several standing committees of the city council shall furnish annually, on or before the first Monday in March, such detailed estimates of the amounts required for their several departments as may be required of them by the city auditor; and the heads of the several departments shall also furnish to the several standing committees of the city council such estimates as may be required of them by such committees, and all estimates furnished to the city auditor shall accompany his estimate presented to the city council.

Section 57. The city auditor shall submit to the joint standing committee on finance, for their approval or amendment, the annual estimates of the several standing committees and heads of departments, and the annual estimate of the city auditor, of the amount of money necessary to be raised by taxation, presented to the city council in accordance with the terms of section 21 of this chapter, shall be based upon the estimates of the various committees and heads of departments, as amended or approved by the joint standing committee on finance.

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CITY AUDITOR'S OFFICE, CITY HALL,
PROVIDENCE, R. I., March 16, 1896.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the ordinance in relation to finances, the undersigned submits the following estimates of the receipts and expenses of the City of Providence for the financial year beginning on the first day of October, 1896, and ending on the 30th day of September, 1897:

The estimated expenditures, classified as follows, amount to $3,477,220 91, viz.:

Required to pay notes in 1897	$40,000 00
Required for the sinking funds	153,350 00
Required for the State tax	303,385 91
Required for interest on the city debt	701,585 00
Required for general expenses	2,278,900 00
Amount of estimated expenditures	$3,477,220 91
Amount of estimated receipts	726.525 00
To be raised by taxation	$2,750,695 91

Should there be no material change in the amount of the ratable real and personal estate of the city the present year from that for the year 1895, a tax of $16.20 on each $1,000 of the valuation will meet the estimates of the various departments, as submitted and printed in this report.

The taxable valuation of the real and personal property of the city in 1895 was $169,789,060.00, and the rate of tax assessed thereon was $16.00 on each $1,000, producing a revenue of $2,716,624.96, or $40,397.76 in excess of that for the previous year. The estimated expenditures are $80,028.50 more than the estimates made in 1895, and are $15,079.38 more than the appropriations made by the city council in September last for the expenses of the present fiscal year.

The estimates as approved or amended by the joint standing committee on finance are $347,281.07 less than the estimates as submitted by the city auditor and the various departments.

The following is a statement of the increase and decrease in the estimates of the departments, and accounts for the fiscal year ending Sept. 30, 1897, over those submitted March 19, 1895, for the fiscal year ending Sept. 30, 1896, as amended by the joint standing committee on finance:

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	Increase.	Decrease.
*Auditing department	$8,000 00	
*City Clerk's department	10,000 00	
*City Council	20,000 00	
City Hall	8,000 00	
*Clerk of Common Council and Committees	3,200 00	
Contingencies		$50,000 00
Elections	3,000 00	
*Executive department	8,000 00	
Fire department	41,000 00	
Harbor	5,000 00	
Health	2,000 00	
*Inspector of Buildings	3,000 00	
*Inspector of Milk	4,000 00	
*Inspector of Plumbing	4,000 00	
Interest	24,000 00	
*Law department	14,000 00	
*License Commissioners	3,000 00	
*Municipal Court	6,200 00	
Police Department	5,778 50	
Printing		15,000 00
Providence Public Library	2,500 00	
Public Buildings	15,000 00	
Public Lights	5,000 00	
Public Parks—General account	2,000 00	
Public Parks—Roger Williams Park	6,000 00	
Public Schools	10,000 00	
Public School Janitors	3,500 00	
*Public Works—Office	24,000 00	
Public Works—Bridges		25,000 00
*Record Commissioners	3,000 00	
*Recorder of Deeds	6,000 00	
Rents		650 00
Salaries		110,000 00
Sinking Funds	20,000 00	
*Street Signs and Numbers	1,500 00	
Support of the Poor	1,000 00	
*Tax department	19,000 00	
*Treasury department	25,000 00	
Water Supply		35,000 00

* New appropriations established by Chapter 676 of the ordinances, approved September 19, 1895.

The estimates of the various departments as approved or amended by the joint standing committee on finance are submitted herewith.

Respectfully,

PHILIP S. CHASE,
City Auditor.

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RECEIPTS.

AN ESTIMATE OF THE RECEIPTS OF THE CITY OF PROVIDENCE FROM THE VARIOUS SOURCES OTHER THAN FROM TAXES FOR THE FISCAL YEAR ENDING SEPT. 30, 1897, APPLICABLE TO THE ORDINARY EXPENSES OF THE CITY.

Fire Department—From sale of old material		$200 00
Interest—From interest on taxes, deposits, etc		42,000 00
Lamp Department—From damage to lanterns and sale of old material		200 00
Licenses—From hacks, wagons, trucks, exhibitions, junk dealers, billiard tables, etc		10,000 00
Liquor Licenses—City's proportion		138,000 00
Miscellaneous—From various sources, including franchises		75,000 00
Police Department—From fines, etc., in police court, fees of officers, etc		12,000 00
Public Bridges—From sale of material, etc		100 00
Public Buildings—From sale of material		25 00
Public Schools—From tuition, poll taxes, dog licenses, etc	$22,000 00	
From State of Rhode Island	28,000 00	
Appropriated by the General Laws of R. I. for the support of Public Schools	50,000 00	
Rents—From buildings, lands, and use of streets by railroads, etc		8,000 00
Streets and Sewers—From opening streets and entering sewers		1,000 00
Water Works—From labor, material, etc	$17,200 00	
From water rents	422,800 00	440,000 00
Total		$726,525 00

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EXPENDITURES.

AN ESTIMATE OF THE AMOUNT OF MONEY WHICH WILL BE REQUIRED TO DEFRAY THE EXPENSES OF THE CITY OF PROVIDENCE FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 1897.

Asylum Walls and Buildings—For repairs of the asylum walls and buildings	$2,000 00
Auditing Department—For salaries of the City Auditor and assistants, and all expenses of office	8,000 00
City Clerk's Department—For salaries of the City Clerk and assistants, and all expenses of office	10,000 00
City Council—For salaries of the aldermen and councilmen; expenses of all committees of the city council, or either branch thereof, and all expenses of the city council	20,000 00
City Hall—For salary of the City Messenger, and for the care and maintenance of the city hall, expenses of office, pay of employés and messenger service	25,000 00
Clerk of Common Council and Clerk of Committees—For salary of the clerk of the common council and clerk of committees, and all expenses of office	3,200 00
Contingencies—For appropriations made by the city council, including public celebrations, and for such other objects and claims as are not specified in this ordinance	75,000 00
Elections—For salaries and office expenses of the Board of Canvassers and Registration and all expenses attendant upon elections, including advertising, ballots, stationery and pay of district wardens, clerk, and supervisors	18,000 00
Executive Department—For salaries of the Mayor, mayor's clerk, and one messenger authorized by chapter 32 of the city ordinances; pay of Orin S. Mowry, authorized by city council resolution number 441, approved July 12, 1892; all expenses of office, and including the sum of five hundred dollars which the Mayor is authorized to expend	8,000 00
Fire Department—For salaries of the officers and members of the Fire Department, office expenses, rent of land for fire stations, expenses of the Fire Marshal, new apparatus, and for water, supplies and repairs of apparatus	325,000 00
Amount carried forward	$494,200 00

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Amount brought forward	$494,200 00
Harbor—For salary of the Harbor Master and for dredging the docks and harbor	10,000 00
Health Department—For salaries of the Superintendent of Health, his assistants, inspectors, and employés; expenses of collecting and recording births, marriages, and deaths; all hospital and quarantine expenses, medicines, and vaccinations; removal of swill and house offal from the city, and all expenses pertaining to the health of the city	45,000 00
Inspector of Buildings—For salaries of the Inspector of Buildings and his assistants, and all expenses of office	3,000 00
Inspector of Milk—For salaries of the Inspector of Milk and assistants, and all expenses of office, including office rent	4,000 00
Inspector of Plumbing—For salaries of the Inspector of Plumbing, his assistants and clerk, and all expenses of office	4,000 00
Interest, viz.:	
On the floating debt	100,000 00
On city hall and sewer loan due June 1, 1899	27,000 00
On Davis estate loan due July 1, 1909	3,000 00
On highway loan due May 1, 1924	48,000 00
On park loan due March 1, 1922	20,000 00
On public improvement loan due July 1, 1899	22,500 00
On public improvement loan due July 1, 1900	7,300 00
On school loan due July 1, 1911	12,000 00
On school loan due May 1, 1925	12,000 00
On sewer loan due July 1, 1921	45,000 00
On sewer loan due March 1, 1922	20,000 00
On sewer loan due April 1, 1923	20,000 00
On sewer loan due May 1, 1925	32,000 00
On water loan due July 1, 1900	208,200 00
On water loan due July 1, 1906	75,000 00
On water loan due September 1, 1916	16,905 00
On water loan due April 1, 1923	32,680 00
Law Department—For salaries of the City Solicitor and assistants, and all expenses of the law department, including officers' and witness' fees	14,000 00
License Commissioners—For salaries of the License Commissioners and all expenses of office	3,000 00
Municipal Court—For salaries of the Judge and Clerk of the municipal court and assistants, and all expenses of office	6,200 00
Amount carried forward	$1,284,985 00

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Amount brought forward	$1,284,985 00
Police Department—For salaries of the officers and members of the police department and all supplies, repairs of apparatus, and expenses of the department; and the salaries of the police justices and expenses of the police court	325,000 00
Printing—For the printing of city documents required by the city ordinances or by the city council and the City Council Resolutions	10,000 00
Providence Public Library—For the aid of the Providence Public Library	10,000 00
Public Buildings—For repairs and maintenance of public buildings, including the salaries of the superintendent and clerk, pay of employés, rent of pioneer hall lot, so-called, and all expenses of office	65,000 00
Public Lights—For salary of the Superintendent of Lights and all expenses of the office and department	280,000 00
Public Parks—For the care and maintenance of all public parks, excepting Roger Williams Park, salaries of the Superintendent of Parks, clerk of the park commissioners and all expenses of office	7,000 00
For maintenance and improvement of Roger Williams Park	26,000 00
Public Schools—For the support of the public schools, including salaries of all officers, teachers, and employés of the school department, the salary and expenses of the truant officer, and rent of Dexter Donation land for school purposes, all money received for poll taxes, dog licenses, tuition, sale of materials, and from the State for public education, and in addition thereto	450,000 00
Public School Janitors—For salaries of the public school janitors and superintendent, all janitors' supplies and all expenses of office	40,000 00
Public Works—For salaries of the Commissioner of Public Works, secretary and office assistants, and all office expenses	24,000 00
For salaries of the City Engineer and assistants and all expenses of office	50,000 00
For building, cleaning and repairing highways	175,000 00
For care and maintenance of the water works	90,000 00
For care and maintenance of sewers	35,000 00
For construction, repair and maintenance of public bridges	25,000 00
For sidewalks and curbing	2,000 00
Amount carried forward	$2,898,985 00

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Amount brought forward		$2,898,985 00
Record Commissioners—For all expenses incident to collecting and printing the early records of the town of Providence		3,000 00
Recorder of Deeds—For salaries of the Recorder of Deeds and his assistants and all expenses of the office		6,000 00
Relief Fund for Firemen		1,500 00
Relief Fund for Policemen		1,500 00
Rhode Island Hospital—Hospital service	$5,000 00	
Ambulance service	3,000 00	8,000 00
Sinking Funds to Redeem Loans—City hall and sewer loan due June 1, 1899		19,000 00
Davis estate loan due July 1, 1909		3,000 00
Highway loan due May 1, 1924		25,000 00
Park loan due March 1, 1922		10,000 00
Public improvement loan due July 1, 1899		13,550 00
Public improvement loan due July 1, 1900		4,500 00
School loan due July 1, 1911		13,300 00
School loan due May 1, 1925		5,000 00
Sewer loan due July 1, 1921		25,000 00
Sewer loan due March 1, 1922		10,000 00
Sewer loan due April 1, 1923		10,000 00
Sewer loan due May 1, 1925		15,000 00
Special Highway Loans—For the payment of note issued under authority of chapter 91 of the city ordinances, and for the payment of note issued under authority of chapter 243		40,000 00
State Tax—For the city's proportion of the State tax		303,385 91
Street Signs and Numbers—For salary of the Superintendent and all expenses attendant upon the numbering of and placing signs upon streets		1,500 00
Support of the Poor—For support of the poor, removal of paupers, burial of bodies, maintenance of the charity wood yard, salaries of the overseer of the poor and assistants and expenses of office		16,000 00
Tax Department—For salaries of the Assessors of Taxes and assistants and all office expenses		19,000 00
Treasury Department—For salaries of the City Treasurer the Deputy City Treasurer and assistants, and all office expenses		25,000 00
Total estimated expenditures for 1896-97		$3,477,220 91

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ESTIMATES OF DEPARTMENTS.

ASYLUM WALLS AND BUILDINGS.

CITY CLERK'S OFFICE,
CITY HALL, February 21, 1896.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: The Board of Aldermen estimated at their meeting February 20, 1896, that the following sum would be necessary for the maintenance of the following department for the fiscal year ending September 30, 1897, viz.:

Asylum walls and buildings $2,000 00

Respectfully yours,

WILLIAM E. CLARKE,

City Clerk.

Approved for $2,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,

Chairman.

CITY CLERK'S DEPARTMENT.

CITY CLERK'S OFFICE,
CITY HALL, February 7, 1896.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

DEAR SIR: In reply to yours of the 1st inst. requesting an estimate of the amount of money required by my Department for the fiscal year ending September 30, 1897, and also an estimate of the receipts for the same period, I will state that I estimate that this department will require for the fiscal year ending September 30, 1897, the sum of ten thousand (10,000) dollars, and that the receipts from all sources will be about seventeen thousand (17,000) dollars.

Very truly yours,

WILLIAM E. CLARKE,

City Clerk.

Approved for $10,000 by the Joint Standing Committe on Finance.

GILBERT A. PHILLIPS,

Chairman.

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CITY HALL.

OFFICE OF THE CITY MESSENGER,
CITY HALL, February 17, 1896.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

DEAR SIR: The estimated amount of money that will be required for the care and maintenance of the City Hall for the fiscal year ending September 30, 1897, is $26,000.

Very truly yours,
EDWARD S. RHODES,
City Messenger.

Approved for $25,000.00 by the Joint Standing Committee on Finance.
GILBERT A. PHILLIPS,
Chairman.

CLERK OF COMMON COUNCIL AND COMMITTEES.

CLERK OF COMMITTEES' OFFICE,
CITY HALL, February 25, 1896.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In compliance with your request I beg to state that the estimated requirements for the expenses of this office for the financial year ending September 30, 1897, are as follows:

For salary of the clerk and assistant	$2,800 00
For telephone	120 00
For supplies, etc	350 00
	$3,270 00

Very respectfully yours,
D. F. HAYDEN,
Clerk of Common Council and Clerk of Committees.

Approved for $3,200.00 by the Joint Standing Committee on Finance.
GILBERT A. PHILLIPS,
Chairman.

FIRE DEPARTMENT.

OFFICE OF THE BOARD OF FIRE COMMISSIONERS,
CITY HALL, February 12, 1896.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

DEAR SIR: Herewith please find estimate in detail of the amount of money required for the maintenance of the Fire Department during the fiscal year ending September 30, 1897:

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SALARIES.

3	Commissioners, each $800.00 per annum	$2,400 00
1	Clerk	1,600 00
1	Chief Engineer	2,000 00
1	Deputy Chief Engineer	1,500 00
2	Assistant Engineers, each $1,400.00 per annum	2,800 00
1	Supt. Fire Alarm Telegraph	1,800 00
26	Foremen, each $3.50 per day	33,215 00
28	Assistant Foremen, each $3.15 per day	32,193 00
7	Enginemen, each $3.25 per day	8,303 75
168	Privates	176,882 65
27	Call Men	6,750 00
265	Men	$269,444 40

EXPENSES.

Apparatus and Equipments	$ 5,000 00		
Fire Hose	4,000 00		
Horse feed and bedding	10,000 00		
Horses	2,500 00		
Gas	3,800 00		
Fuel	3,500 00		
Repairs and alterations	3,500 00		
Fire Alarm Telegraph	5,000 00		
Horse shoeing	2,000 00		
Laundry work	1,300 00		
Supplies	2,000 00		
Veterinary attendance	800 00		
Extra Horses in winter	1,000 00		
Printing and Stationery	700 00		
Bedding and Toweling	500 00		
Ice	250 00		
Miscellaneous expenses	1,000 00		46,850 00
Total			$316,294 40

The Board have omitted the expenses of the Fire Marshal from the estimate. They have no control over this official and have no power to regulate the expenses of his office.

In reference to your request to include in the estimate the amount paid for water, and which has heretofore been charged to a separate appropriation, the Board desire to say that they are aware of no good reason why this item should be added to the appropriation for the Fire Department. The amount charged for hydrants last year was $23,544.21.

* * * * * * * * *

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If the City Council conclude to add this charge to the department the Board must acquiesce, but at present they must decline to place this item in the estimate and thus sanction the expenditure.

The addition of $25,000.00 to the expenses of the Fire Department for the purpose of paying for what should not exceed $1,000.00 is a matter which the Board must protest against, and they therefore submit this statement and request that you will present the same to the Joint Standing Committee on Finance.

Respectfully yours,

STILLMAN WHITE,
WM. H. LUTHER,
DEXTER GORTON,
Board of Fire Commissioners.

Approved for $325,000.00 by Joint Standing Committee on Finance. which amount includes charge for water.

GILBERT A. PHILLIPS,
Chairman.

HARBOR.

CLERK OF COMMITTEES' OFFICE,
CITY HALL, February 25, 1896.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: I am directed by the Committee on Harbor to state in compliance to your request that the estimated amount required for dredging the Harbor including the salary of Harbor Master for the financial year ending September 30, 1897 is $10,000.

Very respectfully yours,

D. F. HAYDEN,
Clerk of Committees.

Approved for $10,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,
Chairman.

HEALTH DEPARTMENT.

CITY CLERK'S OFFICE,
CITY HALL, February 21, 1896.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: At the meeting of the Board of Aldermen February 20, 1896, it was estimated that the following sums would be necessary for

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the maintenance of the Health Department for the fiscal year ending September 30, 1897, viz:

For collecting and removing swill	$26,000 00
For registration expenses	3,600 00
For salary of Superintendent of Health	2,000 00
For sanitary inspectors	2,000 00
For care of contagious diseases	4,000 00
For salary of inspector of meat	1,200 00
For pay of men at dumps	2,000 00
For salary of medical inspector	1,200 00
For disinfections	1,500 00
For serving notices	600 00
For vaccination expenses	1,000 00
For horse hire, shoeing, etc	500 00
For bacteriological and chemical analysis	500 00
For clerk hire	500 00
For signal officer at quarantine	220 00
For care fare	100 00
For telephone	180 00
For contingencies	900 00
Total	$48,000 00

Respectfully yours,

WILLIAM E. CLARKE,
City Clerk.

Approved for $45,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,
Chairman.

INSPECTOR OF BUILDINGS.

OFFICE OF INSPECTOR OF BUILDINGS,
CITY HALL, PROVIDENCE, R. I., Feb. 27, 1896.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: Herewith please find estimate in detail, of the amount of money required for the maintenance of the Inspector of Buildings Department during the fiscal year ending September 30, 1897:

Salaries	$2,532 00
Telephone	120 00
Contingencies	325 00
Total	2,977 00

Respectfully submitted,

SPENCER B. HOPKINS,
Inspector of Buildings.

Approved for $3,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,
Chairman.

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INSPECTOR OF MILK.

OFFICE OF INSPECTOR OF MILK,
174 WEYBOSSET STREET,
PROVIDENCE, R. I., February 24, 1896.

PHILIP S. CHASE, ESQ., CITY AUDITOR:

SIR: I hereby respectfully submit the estimate of the amount of money that will be required by the Milk Inspection Department for the fiscal year ending September 30, 1897, viz., five thousand dollars. There are no receipts from this department.

Most respectfully,

CHARLES A. POTTER,
Inspector.

Approved for $4,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,
Chairman.

INSPECTOR OF PLUMBING.

OFFICE OF INSPECTOR OF PLUMBING,
CITY HALL, PROVIDENCE, R. I., February 28th, 1896.

MR. PHILIP S. CHASE, CITY AUDITOR:

DEAR SIR: I hereby submit an estimate of the amount of money required by this department for the fiscal year ending Sept. 30th, 1897:

Salary of Inspector	$1,500 00
Salary of Assistant Inspector	1,092 00
Salary of Clerk	500 00
Maintenance of horse and carriage	305 00
Car fare	250 00
Stamps, postals and stationery	130 00
Printing of postals and envelopes	27 00
*Plumbing plans	228 56
*Inspection blanks	45 92
Total	$4,078 48

* These items are for renewal of printed supplies which are nearly exhausted.

Very respectfully,

REUBEN S. BEMIS,
Inspector of Plumbing.

Approved for $4,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,
Chairman.

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LICENSE COMMISSIONERS.

OFFICE OF THE LICENSE COMMISSIONERS,
CITY HALL, February 20, 1896.

COL. P. S. CHASE, CITY AUDITOR.

DEAR SIR: Below please find estimates for the fiscal year ending September 30, 1897.

Receipts	$186,000 00
Expenses	3,300 00

Yours truly,

THOMAS NIXON,

Clerk.

Approved for $3,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,

Chairman.

MUNICIPAL COURT.

CITY HALL, PROVIDENCE, R. I., February 4, 1896.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In reply to your request to furnish your department with an estimate of the amount of money that will be required for the conduct of this office for the fiscal year ending September 30, 1897, I would state as follows:

EXPENDITURES.

For the salary of the Judge of the Court	$2,000 00
For the salary of the Clerk of the Court	1,700 00
For the salaries of three assistants	1,721 20
For the expenses of printing, repairs on old volumes and new record books, stationary and general office supplies	800 00
	$6,221 20

The estimated receipts of the office, based on the amount received last year will be about $8,500.00.

Respectfully submitted,

EDWARD FIELD,

Clerk.

Approved for $6,200.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS.

Chairman.

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POLICE DEPARTMENT.

OFFICE OF THE CHIEF OF POLICE.
CITY HALL, PROVIDENCE, R. I., February 25, 1896.

PHILIP S. CHASE, ESQ. CITY AUDITOR.

SIR: I herewith present an estimate of the expenses and receipts of the Police Department for the fiscal year ending September 30, 1897, viz:

Salary of Chief of Police	$2,250 00
" Deputy Chief of Police	1,550 00
" Police Surgeon	1,200 00
" Seven captains	8,942 50
" Seven lieutenants	8,303 75
" Sixteen sergeants	18,279 20
" Five detectives	6,843 75
" One clerk	1,277 50
" One superintendent of hacks	1,186 25
" 225 officers	242,757 00
" Twelve superannuated officers	4,800 00
" One messenger	312 00
" Two police justices	2,000 00
" One matron	600 00
" One assistant matron	500 00
" Engineer	912 50
Fuel	3,000 00
Board of prisoners, Providence County Jail	6,000 00
Signal service maintenance	18,000 00
Stable expenses	7,000 00
Janitors and station supplies	6,500 00
Gas	6,000 00
Electric lighting station No. 1	600 00
Telephone supplies and repairs	1,200 00
Rations for prisoners	300 00
Contingencies	3,500 00
	$353,814 45

ESTIMATED RECEIPTS.

For fines in police court	$6,000 00
For fees of officers in district court and commitments to State Institutions	5,000 00
For fees for registering dogs	938 40
For services of police at exhibitions	75 00
	$12,013 40

Respectfully submitted,

JOSEPH H. KENDRICK,
Chairman Joint Standing Committee on Police.

Approved for $325,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,
Chairman.

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PRINTING.

CITY CLERK'S OFFICE,
CITY HALL, February 24, 1896.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: The estimated amount of money required for printing for the fiscal year ending September 30, 1897, is Ten Thousand (10,000) dollars.

Very respectfully,
GEORGE P. CRESSY,
Chairman Joint Standing Committee on Printing.

Approved for $10,000.00 by the Joint Standing Committee on Finance.
GILBERT A. PHILLIPS,
Chairman.

PUBLIC BUILDINGS.

OFFICE OF SUPERINTENDENT OF PUBLIC BUILDINGS,
CITY HALL, February 29, 1896.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In reply to your circular letter of February 1, 1896, asking for estimate of amount of money that will be required by the Department of Public Buildings for the fiscal year ending September 30, 1897, I am directed by the Committee on City Property to state that the sum of $70,000.00 will be necessary. A detailed statement of probable expenses is attached hereto.

Respectfully submitted,
PHILIP B. DURFEE,
Supt. Public Buildings.

Approved for $65,000.00 by the Joint Standing Committee on Finance.
GILBERT A. PHILLIPS,
Chairman.

PUBLIC LIGHTS.

OFFICE OF THE SUPERINTENDENT OF LIGHTS,
CITY HALL, February 28, 1896.

PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: Herewith please find an estimate of the amount of money that will be required for the Lamp Department during the fiscal year ending September 30, 1897:

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Electric, arc and incandescent lights	$230,315 00
Gas, including lighting, care and extinguishing	22,500 00
Fluid, including lighting and care	30,800 00
Salary	1,700 00
Gas Company labor	1,200 00
Yard labor	1,200 00
Horses, harnesses and wagons	900 00
Lamps and Ladders	100 00
Stock for workshop	300 00
Telephone and printing	200 00
	$289,215 00
Estimates of receipts	$200 00

Respectfully submitted,

HORACE K. BLANCHARD,

Chairman Joint Standing Committee on Lamps.

Approved for $280,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,

Chairman.

PUBLIC PARKS.

OFFICE OF THE PARK COMMISSIONERS,
CITY HALL, PROVIDENCE, R. I., February 18, 1896.

PHILIP S. CHASE, CITY AUDITOR.

SIR: The Commissioners of Parks estimate $26,000.00 as the amount that will be needed for the maintenance of Roger Williams Park for the fiscal year ending September 30, 1897, which amount includes the charge for water, hitherto paid from a separate appropriation.

The estimate for Public Parks is $7,000 00

The estimated receipts for Roger Williams Park are $5,000.00, which cannot be used for the maintenance of the Park.

R. H. DEMING,

Chairman.

Approved for $26,000.00 for Roger Williams Park and $7,000.00 for Public Parks by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,

Chairman.

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PUBLIC SCHOOLS.

DEPARTMENT OF PUBLIC SCHOOLS,
OFFICE OF SECRETARY,
CITY HALL, February 28th, 1896.

PHILIP S. CHASE, ESQ., CITY AUDITOR:

DEAR SIR: The Committee on Education presents the following estimates of the amount required for the support of public schools for the year ending September 30, 1897:

For salaries	$404,700 00
For fuel	40,000 00
For evening schools	35,000 00
For books and supplies	45,000 00
For contingencies	12,000 00
For water	3,000 00
	$539,700 00

Very respectfully,

RATHBONE GARDNER,
Chairman Joint Standing Committee on Education.

Approved for $450,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,
Chairman.

PROVIDENCE, R. I., February 29, 1896.

PHILIP S. CHASE, ESQ., CITY AUDITOR:

DEAR SIR: The Committee on Education presents the following estimates of the amount required for the Janitors of Public School Buildings for the year ending September 30, 1897:

Wages of day school janitors	$36,475 00
Wages of evening school janitors	1,730 00
Salary of Superintendent of janitors	1,000 00
Janitor's supplies	1,500 00
Team account	375 00
Telephone	120 00
Total	$41,200 00

Very respectfully yours,

RATHBONE GARDNER,
Chairman Joint Standing Committee on Education.

Approved for $40,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,
Chairman.

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PUBLIC WORKS—OFFICE.

COMMISSIONER'S OFFICE,
CITY HALL, PROVIDENCE, R. I., February 3, 1896.

MR. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In response to your request of the 1st inst., the following estimate is submitted of the amount of money that will be required for the fiscal year ending September 30, 1897, viz.:

For Public Works, office account	$25,000 00

Yours respectfully,

ROBERT E. SMITH,
Commissioner.

Approved for $24,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,
Chairman.

PUBLIC WORKS—CITY ENGINEER'S DEPARTMENT.

EXECUTIVE DEPARTMENT,
CITY HALL, February 7, 1896.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

DEAR SIR: It is estimated that the following amount of money will be required for the support of the City Engineer's Department for the fiscal year ending September 30, 1897, viz.:

Salaries	$53,108 33
Car fares	1,500 00
Instruments and repairs	200 00
Supplies	1,000 00
Meteorological	50 00
Incidentals	100 00
Telephone lines	41 67
Total	$56,000 00

Yours respectfully,

EDWIN D. McGUINNESS,
Mayor and Chairman Committee on City Engineer's Department.

Approved for $50,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,
Chairman.

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PUBLIC WORKS—HIGHWAYS.

COMMISSIONER'S OFFICE,
CITY HALL, PROVIDENCE, February 3, 1896.

MR. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In response to your request of the 1st inst., the following estimate is submitted of the amount of money that will be required for the fiscal year ending September 30, 1897, viz.:

For Highway Department	$300,000 00
Receipts for same period	2,000 00

Yours respectfully,

ROBERT E. SMITH,

Commissioner.

Approved for $175,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,

Chairman.

PUBLIC WORKS—WATER DEPARTMENT.

COMMISSIONER'S OFFICE,
CITY HALL, PROVIDENCE, R. I., February 3, 1896.

MR. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In response to your request of the 1st inst., the following estimate is submitted of the amount of money required for the fiscal year ending September 30, 1897, viz.:

For maintenance account, water works	$90,000 00

Income:

From sale of water	$450,000 00
From sale of water meters	15,000 00
From rents, labor, materials, etc	2,200 00

Yours respectfully,

ROBERT E. SMITH,

Commissioner.

Approved for $90,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,

Chairman.

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PUBLIC WORKS—SEWER MAINTENANCE.

COMMISSIONER'S OFFICE,
CITY HALL, PROVIDENCE, R. I., February 3, 1896.

MR. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: In response to your request of the 1st inst., the following estimate is submitted of the amount of money that will be required for the fiscal year ending September 30, 1897, viz.:

For sewer maintenance account	$43,000 00
Receipts for same period	500 00

Yours respectfully,

ROBERT E. SMITH,
Commissioner.

Approved for $35,000.00 by the Joint Standing Committte on Finance.

GILBERT A. PHILLIPS,
Chairman.

PUBLIC WORKS—BRIDGES.

CITY CLERK'S OFFICE,
CITY HALL, February 21, 1896.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: The Board of Aldermen estimated at their meeting, February 20, 1896, that the following sums would be necessary for the maintenance of Public Bridges for the fiscal year ending September 30, 1897, viz.:

Point Street Bridge, repairs and supplies	$2,000 00
Washington Bridge, repairs and supplies	2,000 00
Central Bridge, repairs and supplies	1,000 00
Crawford Street Bridge, sundry repairs	4,000 00
Weybosset Bridge, new iron structure (part)	50,000 00
Branch Avenue Bridge (at Wanskuck), new iron structure	5,000 00
All other bridges and miscellaneous work	5,000 00
Amount carried forward	$69,000 00

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Amount brought forward		$69,000 00
The salaries of the attendants at the draw-bridges at present rates will amount to:		
Point Street Bridge	$3,923 75	
Washington Bridge	1,929 29	
Central Bridge	2,007 50	7,860 54
Total		$76,860 54

Respectfully yours,

WM. E. CLARKE,

City Clerk.

Approved for $25,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,

Chairman.

RECORD COMMISSIONERS.

CITY HALL, February 4, 1896.

COL. PHILIP S. CHASE, CITY AUDITOR, PROVIDENCE, R. I.

DEAR SIR: In reply to your request to furnish your department with the estimated amount of money required for this department for the fiscal year ending September 30, 1897, I would say, that to continue the work which is now in progress and to pay the bills which will be contracted in connection with collecting and printing the Early Records of the Town of Providence, the sum of three thousand dollars will be required.

Respectfully submitted,

EDWARD FIELD,

Secretary.

Approved for $3,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,

Chairman.

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RECORDER OF DEEDS.

CITY HALL, PROVIDENCE, February 26, 1896.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

DEAR SIR: In response to your letter of the 1st inst., I submit herewith an estimate of the receipts and expenditures of this department for the fiscal year ending September 30, 1897, viz.:

Receipts from all sources	$7,000 00
Expenses:	
For salary of Recorder	$1,400 00
For clerk hire	3,600 00
For binding, printing, stationery, etc	1,000 00
Total	$6,000 00

Respectfully submitted,

EDWARD C. JOYCE,
Recorder of Deeds.

Approved for $6,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,
Chairman.

STREET SIGNS AND NUMBERS.

OFFICE OF THE
SUPERINTENDENT OF STREET SIGNS AND NUMBERS,
PROVIDENCE, February 26, 1896.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

SIR: At a meeting of the Committee on Street Signs and Numbers, held on the 3d inst., it was voted unanimously that the following amounts be submitted as an estimate of the sum necessary for the use of this department for the fiscal year ending September 30, 1897:

Salary of Superintendent	$420 00
Street signs, 800 galvanized iron	528 00
Aluminum numbers (5,000)	137 50
Use of team	414 50
I am, sir, very respectfully,	$1,500 00

ROBERT W. BURBANK,
Chairman Committee on Street Signs and Numbers.

Approved for $1,500.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,
Chairman.

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SUPPORT OF THE POOR.

IN BOARD OF ALDERMEN, March 2, 1896.

Resolved, That the Board of Aldermen approve and adopt the sum of $16,000.00 as the amount necessary for the maintenance of the Poor Department for the fiscal year ending September 30, 1897, viz.:

For out-door poor	$7,000 00
For Charity Building and Wood-Yard	5,000 00
For removal of paupers	600 00
For burial of paupers	1,000 00
For hospital treatment	1,000 00
For salary	1,400 00
	$16,000 00

Witness:

WM. E. CLARKE,
City Clerk.

Approved for $16,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,
Chairman.

TAX DEPARTMENT.

ASSESSORS' OFFICE,
CITY HALL, February 7, 1896.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

DEAR SIR: In response to your request of the 1st inst., the following estimate of the probable expenses of this department for the year ending September 30, 1897, is herewith submitted:

For salaries	$13,000 00
For expense of assessing poll tax	3,000 00
For temporary assistance	1,500 00
For stationery and incidental expenses	1,500 00
Total estimated expenses	$19,000 00

Respectfully submitted,

ARTHUR H. ARMINGTON,
Secretary.

Approved for $19,000.00 by the Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,
Chairman.

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TREASURY DEPARTMENT.

CITY TREASURER'S OFFICE,
PROVIDENCE, March 2, 1896.

PHILIP S. CHASE, ESQ., CITY AUDITOR.

DEAR SIR: As required by Section 21, Chapter 14 of the Ordinances, I beg to say that I estimate the amount required for the City Treasury Department for the fiscal year ending September 30, 1897, to be $24,750.00. Should an issue of bonds be made during that year and the expenses thereof charged to this department, $1,500.00 should be added thereto.

I am unable to return any adequate estimate of the receipts for the same period, as the same are largely dependent upon the rate of taxation and the assessed valuation of real and personal estates.

I am very respectfully yours,

D. L. D. GRANGER,
City Treasurer.

Approved for $25,000.00 by Joint Standing Committee on Finance.

GILBERT A. PHILLIPS,
Chairman.

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ANNUAL REPORT

OF THE

CHIEF OF POLICE,

FOR THE YEAR

1895.

[Presented March 30, 1896.]



REMINGTON PRINTING CO., CITY PRINTERS,
63 Washington Street.
1896.

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REPORT.

HEADQUARTERS POLICE DEPARTMENT, CITY HALL,
PROVIDENCE, R. I., January 1, 1896.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF PROVIDENCE.

GENTLEMEN: I have the honor to present herewith a report of the work of the Providence Police Department for the year ending December 31, 1895, in accordance with the requirements of Chapter 39 of the City Ordinances.

The maximum number of the force allowed by ordinance is 275, of which number twelve are on the superannuated list unable to perform regular police duty.

The force is classified as follows:

1 deputy chief,	3 detectives,
7 captains,	2 acting detectives,
7 lieutenants,	1 superintendent of signal system,
10 sergeants,	2 warrant officers,
6 acting sergeants,	43 patrolmen, days,
1 clerk of police,	166 patrolmen, nights,
1 assistant clerk,	6 mounted men, nights,
1 property clerk,	4 mounted men, days.
1 superintendent of hacks,	12 superannuated men,
1 assistant superintendent,	
Total, . .	275

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The pay of patrolmen December 31, 1895, was as follows:

150	men at	$3.00	per day.
38	"	2.75	"
7	"	2.50	"
36	"	2.25	"

During the year twenty-two members of the force have had their compensation increased as provided by Chapter 48 of the Ordinances.

Reappointments of officers, after a trial term of service, 5.

The following named officers, acting sergeants, were appointed sergeants:

George A. Clark, September 5th.
Thomas D. Tyler, December 19th.

Appointments, suspensions, and withdrawals during the year were as follows:

Number of officers January 1st, 1895	250
Number of officers December 31st, 1895	271
Appointed during the year	41
Reappointed after a term of service	5
Deaths	0
Resignations	15
Removals	5
Suspensions	26

CAUSES OF SUSPENSION.

Conduct unbecoming an officer	2
Disobedience of orders	1
Insubordination	1
Intimidating a witness	1
Pending an investigation	2
Neglect of duty	4
Violation of Rule No. 5	4
" " " No. 6	1
" " " No. 7	4
" " " No. 89	1
" " " No. 92	1
" " " No. 102	4
Total	26

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DISPOSITION OF SUSPENDED CASES.

Fined and returned to duty with loss of pay during suspension	8
Removed by Board of Aldermen	5
Sergeant reduced to patrol duty	1
Resigned under suspension	7
Returned to duty without fine or loss of pay	5
Total	26

The following is a list of the names of superannuated officers, each of whom are paid $400.00 per year:

1	James W. Saunders	Age 78
2	Josiah Bennett	" 76
3	Joseph W. Pratt	" 74
4	Theodore Rutherford	" 71
5	Lorenzo D. Prosser	" 60
6	Varnum Fuller	" 62
7	James L. Sherman	" 53
8	Daniel T. Colwell	" 55
9	Alfred H. Gates	" 66
10	John B. Livsey	" 56
11	Thomas D. Topliff	" 55
12	John K. Tripp	" 59

DETECTIVE SERVICE.

The records show, appended to this report, that property to the amount of $39,705.79 has been stolen during the year; of this amount $12,263.04 has been recovered by the department; $9,508.85 by the detectives, and $2,754.19 by the police.

Amount reported obtained by embezzlement and false pretense, during the year, $6,318.59. The increased need for detective service has made necessary an increase of the detective force, and Officers Jeremiah F. Reardon and Peter B. Cannon have been detailed for this service, and a Detective Bureau established, of which Detective Patrick Parker, by reason of his long and successful experience, has been placed in charge.

IMPORTANT ARRESTS MADE DURING THE YEAR.

Assault with intent to kill	1
Breaking and entering, night time	39
" " " day time	7

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Embezzlement	14
Highway robbery	1
Fugitives from justice	35
Larceny, grand	43
" simple	282
" suspicion of	142
" from person	8
Murder	1
Receiving stolen property	2

ASSAULTS WITH DANGEROUS WEAPONS.

Billiard Cue	1	Pistol	2
Bottle	1	Razor	1
Club	1	Shovel	1
Dagger	1	Stone	1
Knife	2	Tumbler	1
Total			12

NUMBER OF ARRESTS FOR EACH MONTH OF THE YEAR.

January	453	July	614
February	364	August	619
March	507	September	642
April	655	October	633
May	751	November	596
June	648	December	635
Total			7,117

PROSECUTIONS UNDER THE LIQUOR LAW.

Liquor Nuisances	47
Houses of ill fame	19
Liquor sales	144
Keeping for sale	52
Total	262

DRUNKENNESS.

The number of persons arrested for drunkenness during ten years is presented in the following table:

1886	3,636 arrests	1891	5,064 arrests
1887	3,625 "	1892	4,874 "
1888	4,006 "	1893	4,951 "
1889	4,619 "	1894	4,549 "
1890	4,898 "	1895	4,892 "

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VACANT HOUSES.

During the year 860 vacant houses have been given careful and watchful attention by the officers of this department, during the absence of families, principally during the summer months, and very successfully, when the large number of them is considered.

VAGRANCY.

Fifty-nine arrests were made during the year for vagrancy, and the following table will show the number of applicants for lodgings at police stations, principally the Central Station:

January	863
February	867
March	1,096
April	198
May	41
June	23
July	45
August	66
September	48
October	37
November	32
December	222
Total	3,538

POLICE SIGNAL SERVICE.

The seven districts of this department are now provided with the apparatus of the Gamewell system for signalling and are in constant use. The following tables will show this particular class of police service performed in the several districts:

DISTRICT NO. 1.

Duty calls	75,486
Telephone calls	6,129
Wagon calls	2,064
Miles run	1,942

The Municipal system was in service in this district from January 1st to April 8th, when it was replaced by the Gamewell system.

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DISTRICT NO. 2.

Duty calls	72,085
Telephone calls	6,846
Wagon calls	534
Miles run	704

DISTRICT NO. 3.

Duty calls	52,905
Telephone calls	6,692

No wagon in service as there was no stable provided.

DISTRICT NO. 4.

Duty calls	71,175
Telephone calls	6,781
Wagon calls	468
Miles run	513

Nine months wagon service from March 31st.

DISTRICT NO. 5.

Duty calls	62,022
Telephone calls	4,228
Wagon calls	597
Miles run	478

Wagon went into service April 5th.

DISTRICT NO. 6.

Duty calls	54,472
Telephone calls	3,316
Wagon calls	418
Miles run	482

DISTRICT NO. 7.

Duty calls	44,306
Telephone calls	3,886

Wagon service of 4th District used in this district.

Number of extra duty hours work performed during 1895:

Station No. 1	21,064
" No. 2	20,267
" No. 3	15,076
" No. 4	16,111
" No. 5	19,199
" No. 6	21,406
" No. 7	16,080
Total number of hours	129,203

Averaging nearly 470 hours for each member of the force.

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NUMBER OF ARRESTS FOR EACH DAY IN THE WEEK.

Sunday	624
Monday	1,053
Tuesday	1,070
Wednesday	982
Thursday	960
Friday	875
Saturday	1,553
Total	7,117

DOG LICENSES.

Number of dogs licensed during the year, 6,368.

5,357	males at $1.15 each	$6,160.55
288	females at $2.15 each	619.20
654	" " 5.15 "	3,368.10
69	" " 6.15 "	424.35
Total number, 6,368		Amount received, $10,572.20

Fees, 15 cents each, $955.20.

FEMALE PRISONERS.

819 females have been arrested during the year and placed in charge of Mrs. Mary J. Tillinghast, Matron, or her assistant, Mrs. Annie E. Burlingame, at the Central Police Station, where prompt and humane attention has been given them at all hours of the day or night.

In connection with this subject I desire to incorporate in this report a grateful acknowledgment of the Matron for donations of clothing for the unfortunates in her charge during 1895, from the "Woman's Relief Corps," "Daughters of Liberty," 60 hats from "Shepard & Company," and cloaks and underwear from the "Women's Christian Temperance Union;" also from Miss Hopkins of the "Rescue Mission," cloaks and hats. This is a form of charity I heartily approve, and is deserving the consideration of philanthropic citizens.

DEPARTMENT EMPLOYEES.

Number of department employees, their classification and wages paid, will be found in the following table:

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1 Batteryman	$10.00 per week.
1 Climber, Signal Service	2.50 per day.
10 Drivers, Patrol Wagons	2.00 each per day.
1 Hostler	2.00 per day.
1 Engineer	2.50 per day.
1 Janitor	2.61 (including assistant) per day.
5 Janitors	1.64 each per day.
1 Janitor	6.92 per week.
1 Messenger	6.00 per week.
1 Police Matron	11.50 per week.
1 Assistant Matron	8.75 per week.

NEWSBOYS AND BOOTBLACKS.

Under the rules adopted by the Board of Aldermen May 3, 1894, for the government of newsboys and bootblacks, they are required to receive a permit or license from the Chief of Police to sell papers or black boots on the streets of the city. Since the adoption of this rule nearly 700 licenses, or badges, have been issued from this office, and the results have justified the action of the Board. It is a noticeable fact that since the boys came under the wholesome restraints of the license system, complaints of their unruly conduct upon the streets have nearly ceased.

Number of licensed news boys December 31st	448
Number of licensed boot blacks December 31st	152

NATIONALITY.

News Boys—America		308
	Canada	5
	Poland	3
	Italy	18
	Sweden	4
	Ireland	5
	Germany	16
	Austria	4
	Russia	71
	Nova Scotia	2
	England	10
	Scotland	2
	Total	448

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Boot Blacks—America	56
Canada	3
Spain	1
Italy	8
Sweden	2
Ireland	4
Poland	2
Germany	6
Austria	3
Russia	54
Nova Scotia	3
England	8
Scotland	1
France	1
Total	152

RESOLUTION OF THE BOARD OF ALDERMEN.

(Adopted March 1, 1894.)

RESOLUTION: That a fee for a license to hold dances, shows, and exhibitions, at places other than those licensed by the year by the Board of Aldermen, be, and the same is hereby fixed at not less than Five Dollars, nor more than Ten Dollars for each and every performance, in the discretion of the Chief of Police.

PROVIDED, That licenses shall be granted upon the recommendation of the Chief of Police to lodges, societies, fraternal, social, or benevolent clubs, or other organizations, to hold dances or entertainments in the halls used and occupied by such societies, clubs or organizations, upon the payment of one dollar for such license.

Under the conditions of the resolution 813 applications have been made during the year for licenses at this office and were approved.

Of the number of licenses granted 565 were of the first class at $1.00 each, and 248 of the second class at $5.00 each.

Classification of offences for which the 7,117 arrests were made will be found tabulated in this report, also reports of the Superintendent of Hacks, and Police Surgeon, and of the expenditures of the department during the year, both calendar and fiscal.

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At no time previously in the history of this department have its members been called upon to exercise a larger degree of vigilance and activity than during the past year; several safe robberies in succession startled the community, and rendered necessary the detailing of officers in citizen's clothing to patrol the business portion of the city, and every member of the department was made to realize the importance of increased vigilance and watchfulness in the performance of his duty. In addition to their regular tours of duty upon their beats, or districts, each member of the force averaged nearly 470 hours of extra duty.

The expenditures of the department amount to $306,937.55 for the fiscal year ending September 30th, 1895.

In closing this report of the department under the management of my predecessor, Benjamin H. Child, Esq., I desire to present the following suggestions and recommendations for the consideration of the City Council:

First, that an ordinance be created that will empower the police to control the locating of fruit and peanut stands upon the streets and sidewalks, of which there are a large number at present, and against which many persons complain.

March 11th the officers of the First District moved into the new station on Fountain street, and the change from the antiquated Canal street station to the modern one has proven an agreeable one for all concerned, but there are a few serious disadvantages developed that were not contemplated in the general plan of the new building. Under the cage system of cells for prisoners, in use at this station, communication with each other of their occupants is made easy, and those charged with grave offences are, of necessity, confined, like all others, in these cells, and by easy communication with their next-door neighbors, who may be discharged in the morning, may be able to defeat the ends of justice by arranging for the concealment of evidence necessary for conviction; two isolated cells at this station is very much needed,

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and I respectfully suggest that they be constructed at the earliest practicable date.

The Seventh Police Station on Oakland street is wholly inadequate in its guard room and sleeping room accommodations, and steps should be immediately taken that will afford the necessary relief.

One of the most difficult problems we have to consider is how best to manage the "tramp" element that during the colder season of the year depend for shelter and warmth upon such provisions as may be made for them by the city. There is no place at present provided for them, and they are temporarily cared for in the cells of the different stations, and are a serious detriment to the business of this department; they not only fill the cells with filth and vermin, but are in communication with prisoners confined in neighboring cells, and it requires great care and precaution to prevent their getting mixed with those committed for crime, and preventing the latter from walking out from confinement as a lodger. I respectfully suggest the need of some place being provided for this class of unfortunates.

The important rules adopted during the year, requiring all applicants for a position in the department to submit to a written examination, including the writing from dictation and the answering of questions testing their mental qualifications, and also for extending the probationary term of the appointee to one year, requiring at the close of the year renewed evidence of his physical capacity for the duties of the position, and a written examination of his acquired knowledge of the Police rules, City Ordinances, and the general work required of a police officer, in which he shall attain, at least, 50 per cent. proficiency, have, in my opinion, demonstrated their efficiency. I propose to extend the rules and require a report from the superior officer under whom such patrolman has served during his term of probation, showing if, or not, the officer has manifested tact, discretion, ability and zeal during his trial service.

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I would suggest that the rule prescribing the weight of applicants be changed, so that the minimum weight shall not be less than 160 pounds, and that all measurements shall be of the body unclothed; also that the age of such applicants shall not be less than 23 nor more than 35 years.

Respectfully submitted,

REUBEN R. BAKER,

Chief of Police.

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REPORT OF THE SUPERINTENDENT OF HACKS.

FOR 1895.

Number of Wagons	licensed at	$1.00	each	.....	830
" Carts	"	"	"	.....	395
" Hacks	"	"	"	.....	223
" Low Gears	"	"	"	.....	182
" Drivers	"	"	"	.....	47
" Lumber Reaches	"	"	"	.....	20

Total amount received $1,697.00.

FREE LICENSES.

Number of Wagons	licensed free	.....	3,857
" Carts	"	.....	434
" Low Gears	"	.....	60
" Lumber Reaches	"	.....	85
Total number of free licenses		.....	4,436

TOTAL NUMBER LICENSED.

Number of Wagons	licensed	.....	4,687
" Carts	"	.....	829
" Hacks	"	.....	223
" Low Gears	"	.....	242
" Lumber Reaches	"	.....	105
" Drivers	"	.....	47
Total number of licenses issued		.....	6,133

Besides attending to my duties of looking for unlicensed vehicles, and investigating all complaints relative to hackmen and expressmen that have been brought to my attention, I have set the city flags twelve (12) times. I have also attended amusements, weddings and receptions where a large number of carriages had been ordered, and have performed such other duties as the Mayor, Chief, and Deputy Chief of Police have required of me.

Respectfully submitted,

GEORGE H. NORCROSS,

Superintendent of Hacks.

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POLICE SURGEON'S REPORT.

PROVIDENCE, February, 1896.

REUBEN R. BAKER, CHIEF OF POLICE:

SIR:—I have the honor to submit the following report relative to the service of the Police Surgeon for 1895; also recommendations and suggestions:

Number of visits of inquiry to officers reported sick or disabled	680
Number of visits by night in professional attendance upon sick or disabled officers at stations, or upon sick list, wounded, or insane police prisoners	58
Number of visits by day for like service	164
Number of applicants for service examined	86

The reported sickness of the year has been that usually incident to the service, the diarrhœal diseases of summer and the bronchial affections of winter. No case, however, of severe or fatal sickness has occurred during the year.

The total days' sickness and number of officers reported sick are, officers, 128; days, 1,040. In 1894, 137 officers reported sick for 1,544 days. This decrease in sickness for the year is remakable, considering the increase of the force during the time from 250 to 275. The average length of sickness of the 128 reporting sick is 8 1-3 days, and the total sickness is only a fraction above 1 per cent. of the total days work of the force during the year, or about the same per cent. of the force being daily on the sick report.

The sanitary conditions and janitor service have been good in all the stations during the year, while in some stations the latter has been excellent.

In my opinion, the janitor service would be better rendered, if not had at the best, if their engagement at stipulated pay and discharge for cause were directly in control of the captains of stations.

No officers have died during the year.

WILLIAM H. PALMER,

Police Surgeon.

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ORGANIZATION OF POLICE DEPARTMENT.

Headquarters at City Hall.

CHIEF OF POLICE
BENJAMIN H. CHILD.

DEPUTY CHIEF OF POLICE
PATRICK EGAN.

CLERK OF POLICE
WILLIAM GARDINER.

ASSISTANT CLERK
JOHN A. MURRAY.

SUPERINTENDENT OF HACKS
GEORGE H. NORCROSS.

ASSISTANT SUPERINTENDENT OF HACKS
JOHN R. FEELEY.

DETECTIVES
PATRICK PARKER, JAMES O. SWAN, SILAS L. W. MERRILL.

ACTING DETECTIVES
JEREMIAH F. REARDON, PETER B. CANNON.

DAY SERGEANT
WILLIAM H. ROWE.

WARRANT OFFICERS
EDWIN R. JONES, ISAIAH LONG.

PROPERTY CLERK
STEPHEN F. BLANDING.

CITY MESSENGER'S DEPARTMENT
JOSEPH B. CURTIS.

POLICE MESSENGER
CLARENCE E. VAUGHAN.

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FIRST STATION.

Station House on Fountain street.

EUGENE STEVENS, *Captain*,
FRANK A. MATHEWS, *Lieutenant*.

SERGEANTS

EDWARD J. SMITH, WILLIAM P. WHIPPLE,
THOMAS D. TYLER.

DAY PATROLMEN

Frank H. Anthony,
George W. Boss,
Richard A. Clark,
Thomas J. Hanley,
Frank L. Martin,
Frank H. Morton,
William F. O'Neil,
William N. Sherman,
John V. Simonds,
Nahum Willard,

Charles B. Baird, *Wagon Officer*.

NIGHT PATROLMEN

Chester H. Blood,
Arthur P. Butts,
Charles A. Bennett,
Frank E. Blake,
Clarence W. Case,
George M. Chace,
Charles H. Colwell,
James J. Costigan,
Charles W. Darling,
Edward Dorsey,
Peter F. Duffy,
Cornelius J. Dunn,
James F. Feeney,
John H. Hannifan,
William W. Huntley,
Patrick J. Fanning,
Thomas W. Jacobs,
James A. Lee,
Michael J. Luby,
Edward J. McDonnell,
Albert E. Nickerson,
John W. Poinier,
Edward J. Robinson,
Louis H. Streeter,
George R. Waterman,
John H. Martin,

Herbert M. Willard.

SECOND STATION.

Station House on cor. Chalkstone avenue and Ashburton street.

REUBEN R. BAKER, *Captain*,
CONSTANT S. HORTON, *Lieutenant*,
SAMUEL W. THOMAS, *Sergeant*,
HENRY F. MORSE, *Acting Sergeant*.

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DAY PATROLMEN

William Gilfoil,
Peter F. Gilmartin,
William F. Hayden,
John F. Mathewson,
Murdock C. McKenzie,
Edmund J. Munroe.

George F. Nye.

NIGHT PATROLMEN

Malvin P. Bates
Louis H. Bartlett,
Fred H. Blackman,
William H. Briggs,
James L. Coyle,
William H. Conlon,
Thomas J. Curley,
Frederick A. Daniels,
William L. Doe,
Joseph R. Edwards,
James A. Flynn,
Charles E. Fort,
Richard Gamble,
Peter H. Galligan,
Thomas L. Hunt,
George Irwin,
John H. Hennessey,
William A. Gillen,
Thomas F. Kavanagh,
William C. Koch,
Thomas H. Little,
Francis H. Luby,
Thomas J. McCartin,
Patrick J. McElroy,
John T. McGirl,
Thomas F. McGovern,
Howard S. Paine,
Everett Hall,

Thomas Reynolds.

THIRD STATION.

Station House on Wickenden street.

PATRICK J. MAGILL, *Captain*,
EDWARD O'NEIL, *Lieutenant*,
JOHN B. HARTNETT, *Sergeant*,
BRADFORD G. NILES, *Acting Sergeant*.

DAY PATROLMEN

Mathew F. Fitzpatrick,
Welcome U. Foye,
Job S. Yeaw,
Joshua A. Nickerson,
John J. Toole,
George B. Lapham.

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NIGHT PATROLMEN

Joseph A. Arnold,
James Ash,
Everett M. Cory,
William Dolan,
James Feeley,
Joseph N. Flynn,
William H. Gale,
Thomas Harvey,
Jason M. Harvey,
Michael E. Kelley,
John Linehan,
John F. Lyons,
George A. Wyman,
Arthur D. Sharpe,
Charles Mayno,
Andrew P. Martin,
James H. Moffitt,
John F. McGovern,
Joseph McGroarty,
Joshua A. Nickerson,
Thomas L. Nolan,
Francis O'Connor,
Thomas Rooney,
John D. Sheehan,
John J. Sullivan,
Claude B. Tidd,
John W. Ward,
William F. Scanlan.

FOURTH STATION.

Station House on Knight street.

JOSEPH MARSTON, *Captain*,
FREDERICK A. RANKIN, *Lieutenant*,
A. FRANK MOWRY, *Sergeant*,
MAYNARD L. STONE, *Acting Sergeant*.

DAY PATROLMEN

Luther C. Bugbee,
Ralph E. Gifford,
Charles B. Gorey,
William A. Munroe,
Abel C. T. Wheeler.

NIGHT PATROLMEN

James Ahearn,
Lewis L. Allen,
John H. Armstrong,
Otis W. Baker,
Herbert C. Blood,
Joseph H. Dowling,
William H. Ferguson,
George J. Gammill,
Duty J. Greene,
Peter H. Healy,
Thomas Hopkins,
Francis P. Johnson,
Andrew J. Kennedy.
Owen King,
Alfred S. Keach,
Charles McSoley,
Hart B. Pierce,
Warren M. Smith,
Frederick E. Reed,
Michael Reynolds,
Joseph E. Stockley,
Willard I. Turner,
Albert E. Wixon,
William M. Wyman.

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FIFTH STATION.

Station House corner of Plain and Borden streets.

JEREMIAH COSTINE, *Captain*,
WILLIAM H. LAWRENCE, *Lieutenant*,
JOSEPH A. PROUT, *Sergeant*,
LEROY T. BENNETT, *Acting Sergeant*.

DAY PATROLMEN

Julius B. Alfred,
William Bradbury,
William E. Bowen,
Robert M. Connors,
Michael Griffin,
Chandler B. Robinson,
Sylvester Tracy.

NIGHT PATROLMEN

Edward W. Baker,
Hartley W. Brown,
Alonzo J. Brown,
James M. Cannon,
Edward D. Coakley,
George N. Cobb,
Michael J. Cunningham,
Cornelius Daly,
Frank DeGrado,
John Gallagher,
Thomas F. Jones,
Michael Griffin,
Thomas E. Kane,
Thomas Kiley,
William S. Kent,
Neil J. McDonald,
William F. O'Brien,
George E. Ordway,
William H. Place,
Owen Rice,
Samuel D. Sessions,
Thomas J. Smith,
J. Henry Wilbur,
Thomas A. Wallace.

SIXTH STATION.

Chaffee street.

WILLIAM H. LEAVITT, *Captain*,
GEORGE H. DARY, *Lieutenant*,
BENJAMIN T. WHITE, *Sergeant*,
HUGH D. ROBLEE, *Acting Sergeant*.

DAY PATROLMEN

Timothy T. Arnold,
Owen Breheny,
John N. Dyer,
James P. McLoughlin,
Frank M. Miller,
Patrick A. Sullivan.

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NIGHT PATROLMEN

Hiram Allen, 3d,
James M. Ahern,
Patrick Devine,
Elden W. Doe,
Patrick H. Dulin
Martin P. Feeney,
Marcelle Hannan,
Walter E. Jordan,
James Kelleher,
James E. McCaffery,
Edward McGuire.
Henry H. Place,
John H. Smith,
Isaiah B. Sherman,
Charles A. Tanner,
Algernon S. Tucker,
Richard Powell,
Charles S. Young,
Albert N. White,
Julius A. Webb.

SEVENTH STATION.

Station House cor. Burnett and Public streets.

WILLIAM H. CORY, *Captain*,
JAMES P. SCOTT, *Lieutenant*,
GEORGE A. CLARK, *Sergeant*,
WALTER E. POTTER, *Acting Sergeant*.

DAY PATROLMEN

Alexander Charnley,
Hiram Hart,
John F. Muldoon,
Patrick McGuire,
William E. Pointer.

NIGHT PATROLMEN

P. Joseph Burns,
William W. Chace,
Skinner A. Collier,
Eugene F. Dailey,
Thomas E. Darcy,
Francis E. Dunlavey,
Frank P. Day,
Charles E. Holland,
Charles T. Kennedy,
Frederick H. Nettleton,
Dennis F. Mahoney,
Stephen Ryan,
Charles E. Smith,
George N. Stewart,
Benjamin G. Sullivan.
Edward J. Tiernan.

SUPERANNUATED OFFICERS

Josiah Bennett,
Daniel T. Colwell,
Alfred H. Gates,
Varnum Fuller,
John B. Livsey,
Joseph W. Pratt,
Lorenzo D. Prosser,
Theodore Rutherford,
James W. Saunders,
James L. Sherman,
Thomas D. Topliff,
John K. Tripp.

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DEPARTMENT EMPLOYEES.

Clarence E. Vaughan, messenger	Headquarters
Aaron W. Clark, engineer	Station No. 1.
Isaac B. Mosby, janitor	" " 1.
Mary J. Tillinghast, matron	" " 1.
Annie S. Burlingame, assistant	" " 1.
James J. Morrally, hostler	" " 1.
Everett C. Bliss, patrol wagon driver	" " 1.
Hugh Maines, " " "	" " 1.
Lewis C. Leighton, climber, signal service	" " 1.
William P. Rankin, batteryman, " "	" " 1.
Charles B. Luther, janitor	" " 2.
Alfred J. Crowell, patrol wagon driver	" " 2.
Frank McGair, " " "	" " 2.
Frank McManus janitor	" " 3.
George H. Simms, janitor	" " 4.
Charles W. Higgins, patrol wagon driver	" " 4.
James E. Johnson, " " "	" " 4.
Thomas R. Potter, janitor	" " 5.
Thomas E. Colton, patrol wagon driver	" " 5.
Silas A. Smith, " " "	" " 5.
Patrick J. Lannan, janitor	" " 6.
Charles Burrows, patrol wagon driver	" " 6.
John Giblin, " " "	" " 6.
Edward B. Macklin	" " 7.

The following tables exhibit the number of arrests, nativity of persons arrested, and the various offences for which they were committed:

Total number of arrests	7,117
" " " males	6,298
" " " females	819
" " " foreigners	2,636
" " " non-residents	1,470
" " " minors	717
" " " commitments	6,828
" " arrested on warrants	578
" " of males provided with lodgings	3,538

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NATIVITY OF PERSONS ARRESTED.

United States, white	4,214	Ireland	1,547
" " colored	210	Italy	144
Austria	2	Jews	20
Armenia	16	New Brunswick	5
Arabia	1	New Foundland	2
Canada	62	Nova Scotia	25
China	2	Norway	16
Denmark	3	Poland	3
England	379	Portugal	22
France	88	Russia	31
Finland	2	Sweden	155
Germany	69	Spain	3
Hungary	1	Scotland	94
Holland	1	Wales	2
Total			7,117

The following table exhibits the comparative nnmber of arrests each month for three years:

	1893.	1894.	1895.
January	392	446	453
February	351	429	364
March	502	577	507
April	514	486	655
May	610	633	751
June	650	512	648
July	684	554	614
August	627	615	619
September	637	705	642
October	633	569	633
November	537	542	596
December	968	480	635
Total	7,105	6,548	7,117

CAUSES OF ARREST, 1895.

Abandoning child	0	Bastardy	11
Adultery	8	Bigamy	0
Arson	0	Breaking and entering, day time	7
Assault and battery	185	" " " night time	39
Assault with dangerous weapon	17	" " " suspicion of	2
" on officers	0	Breaking street lanterns	0
" with intent to kill	1	Burglary	2
" with intent to rape	0	" suspicion of	0
Attempt to commit suicide	0	Burying body, no permit	0
" to poison	0	Bathing without clothing	1
" to set fire	0	Blacking boots illegally	1

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Concealed weapons	1
Common brawlers	0
" drunkards	3
" gamblers	0
" night walker	1
" nuisance	1
" prostitutes	0
Contempt of court	0
Cruelty to animals	14
Deserters U. S. army	0
Discharging fire arms in street	7
" " " on Sunday	0
" fire crackers in street	0
Disorderly houses	3
Disorderly persons	40
Disturbing public schools	4
" religious meetings	3
Dog fighting	0
Driving cattle in street	0
Drunkenness	4,892
Defacing building	9
Detained	3
Embezzlement	14
Enticing females to houses of ill-fame	0
Evading fare	1
Exposing person	13
False pretences	5
Fast driving	10
Forgery	1
Fornication	12
Fugitives from justice	35
" " State Home	0
" " " Reform scho'l	3
" " " Work house	9
Fraudulent voting	1
Gambling	7
Houses of ill fame	19
Highway robbery	1
Infanticide	0
" suspicion of	0
Incest	0
Injury to buildings	4
Insane persons	46
Itinerant musicians	0
Keeping liquor for sale	5
Keeping swine	0
Larceny from person	8
" grand	43
" petty	282
" suspicion of	142
Lewd and wanton	40
Malicious mischief	17
Managing lottery	0
Murder	1
" suspicion of	0
Night walking	35
Non-support of family	23
Obtaining goods fraudulently	1
Obstructing officers	2
Perjury	1
Passing counterfeit money	0
Pickpockets	0
Playing ball Sunday	3
Present at a dog fight	0
Refusing to obey order of the Board of Aldermen	1
Railer and Brawler	8
Rape	0
Receiving stolen goods	2
Refusing to aid officer	0
Revelling	139
Robbery	0
" suspicion of	0
Rum nuisance	47
Running away from home	1
Selling tickets on street	2
Safe keeping	34
Selling adulterated milk	3
" fireworks without license	0
" inflammable fluid	0
" liquor without license	33
" obscene literature	0
Seduction	0
Setting fires	0
" " suspicion of	0
Shoplifting	0
Shop open after 12 P. M.	1
Shop open Sunday	0
Slaughtering cattle	0
Sodomy	0
Spreading infectious disease	0
Stubborn children	12
Sturdy beggars	40
Suspicious persons	553
Swindling	0
Sleeping out	7
Taking growing fruit	4
Threats	1
Truancy	63
Throwing stones in street	1
Vagrancy	58

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Violation of city ordinances.....	59	Violation of screen law.....	0
" " hack ordinances.....	3	" " Sunday law.....	0
" " health "	1	" " U. S. postal law.....	1
" " milk law.....	0	Writ of attachment.....	3
" " nuisance law.....	1		
Total number.....			7,117

The following table exhibits the comparative business of the Department for three years:

	1893.	1894.	1895.
Abandoning child.....	0	0	0
Adultery.....	0	0	8
Arson.....	0	0	0
Assault and battery.....	252	227	185
" with dangerous weapon....	47	32	17
" on officers.....	0	0	0
" with intent to kill.....	4	4	1
" with intent to rape.....	0	0	0
Bastardy.....	6	3	11
Blindness of child not reported....	1	0	0
Break and enter, attempt to.....	0	0	0
Breaking and entering, suspicion..	9	5	1
" " " day time..	17	9	7
" " " night time.	27	52	39
Breaking street lanterns.....	0	0	0
Bigamy.....	1	0	0
Building bonfire.....	0	0	0
Burglary.....	4	0	2
" suspicion of.....	0	0	0
Burying body, no permit.....	0	0	0
Bathing without clothing.....	0	0	1
Blacking boots without badge.....	0	0	1
Concealed weapons.....	61	30	1
Common brawlers.....	12	10	0
" drunkards.....	178	123	3
" gamblers.....	1	13	0
" nuisance.....	1	0	1
" prostitute.....	26	0	0
Concealing birth of a child.....	2	0	0
Contempt of court.....	1	0	0
Cruelty to animals.....	22	31	14
Disorderly house.....	7	2	3
Discharging fire arms in street.....	4	5	7
" " " on Sunday..	2	0	0
" fire crackers in street..	0	0	0
Disturbing public schools.....	0	0	4
" religious meetings.....	1	0	3
Disorderly persons.....	48	33	40

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	1893.	1894.	1895.
Dog fighting	0	0	0
Driving off team	0	3	0
Driving cattle in street	0	0	0
Drunkenness	4,951	4,549	4,892
Defacing building	0	0	9
Detained	0	0	3
Embezzlement	9	8	14
Enticing females to house of ill fame	0	0	0
Evading fare	4	3	1
Exposing person	3	1	13
Fast driving	0	0	10
False pretence	5	1	5
Forgery	3	1	1
Fornication	0	11	12
Fraud	5	0	0
Fugitives from justice	28	36	35
" " state home	0	1	0
" " reform school	0	0	2
" " work house	5	7	9
Fraudulent voting	0	0	1
Gambling	0	13	7
Houses of ill fame	11	25	19
Highway robbery	0	0	1
Infanticide	0	0	0
" suspicion of	0	0	0
Incest	0	1	0
Injury to buildings	5	17	4
Insane persons	68	40	46
Itinerant musicians	0	0	0
Keeping liquor for sale	35	27	5
" pool room	0	2	0
" swine	0	0	0
" unlicensed dog	0	1	0
Larceny from the person	11	13	8
" grand	20	26	43
" petty	210	204	282
" suspicion of	115	122	142
Lewd and wanton	0	63	40
Liquor seizures	4	0	0
Malicious mischief	29	15	17
Managing lottery	0	1	0
Manslaughter	0	1	0
Murder	1	1	1
" suspicion of	0	0	0
Neglecting to have children attend school	0	1	0
Night walking	20	41	35
Non-support of family	12	20	23
Obtaining goods fraudulently	0	0	1
Obstructing officers	2	4	2

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	1893.	1894.	1895.
Perjury	0	0	1
Passing counterfeit money	0	0	0
" worthless cheque	0	1	0
Pickpockets	9	0	0
Playing ball Sunday	7	4	3
" " in street	1	0	0
Playing cards Sunday	3	0	0
Prize fighting	0	0	0
Present at a dog fight	0	0	0
Refusing to obey order of the Board of Aldermen	0	0	1
Refusing information to assessor of taxes	0	0	0
Railer and brawler	0	10	8
Rape	0	0	0
Receiving stolen goods	1	4	2
Refusing to aid officer	0	0	0
Revelling	73	103	139
Robbery	1	0	0
" suspicion of	0	0	0
Rum nuisance	54	62	47
Running away from home	0	0	1
Selling tickets in the street	0	0	2
Soliciting passengers on street	0	2	0
Safe keeping	102	29	34
Selling adulterated milk	2	8	3
" fireworks without a license.	2	0	0
" inflammable fluid	0	0	0
" liquor without license	85	28	33
" obscene literature	0	1	0
Seduction	0	0	0
Setting fires	0	0	0
" " suspicion of	0	0	0
Shoplifting	1	0	0
Shop open after 12 P. M.	0	0	1
Shop open Sunday	0	0	0
Slaughtering cattle	0	0	0
Sodomy	1	0	0
Spreading infectious diseases	0	0	0
Stubborn children	10	12	12
Sturdy beggars	9	30	40
Suspicious persons	309	290	553
Swindling	0	0	0
Sleeping out	0	0	7
Taking growing fruit	17	2	4
Tampering with U. S. Mails	1	0	0
Threats	6	1	1
Truancy	31	49	62
Throwing stones in street	0	2	1
Using short measure	1	0	0

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	1893.	1894.	1895.
Vagrancy	32	39	58
Violation of city ordinances	35	34	59
" " hack ordinance	12	0	3
" " health ordinance	4	0	1
" " milk law	5	0	0
" " nuisance law	0	0	1
" " screen law	1	1	0
" " Sunday law	0	0	0
" " U. S. shipping law	1	0	0
" " U. S. postal law	0	0	1
" " insurance law	4	0	0
Writ of attachment	5	2	3
Total	7,105	6,548	7,117

The following table exhibits an abstract of the miscellaneous duties performed by the police in addition to the number of arrests.

Accidents reported	611
Attempts to break and enter prevented	26
Attempts to commit suicide prevented	0
Attempts to break and enter reported	9
Breaking and entering reported	21
Burglaries reported	9
Cows and horses driven to pound	24
Dead bodies	36
Dangerous bridges reported	8
Defective sewers reported	30
Disturbances suppressed	1,522
Drains, vaults, and nuisances reported	140
Defective dams	2
Defective lamps	7,538
Fire alarms given	173
Fires extinguished without an alarm	94
Injured persons provided for	98
Intoxicated persons helped home	6
Larcenies reported	1,610
Lights hung on obstructions	2,686
Lights out in stores usually left lighted	44
Lost children restored	183
Rescued from suffocation	2
Rescued from drowning	5
Robberies reported	27
Runaway horses stopped	49
Runaway horses reported	181
Sidewalks reported for repairs	994
Stores found open and secured	2,386

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Stray teams put up	79
Street obstructions reported	609
Suicides	2
Suicides prevented	1
Violation of building law reported	3
Water running to waste and owners notified	71
Witnesses summoned	1

The following table exhibits the comparative miscellaneous business for three years:

	1893.	1894.	1895.
Accidents reported	393	475	611
Attempts to break and enter prevented	44	26	26
Attempts to commit suicide prevented	0	0	0
Attempts to break and enter reported	0	0	9
Breaking and entering reported	0	0	21
Burglaries reported	0	0	9
Cows and horses driven to pound	19	21	24
Dead bodies	0	23	36
Dangerous bridges reported	0	4	8
Defective sewers reported	2	8	30
Disturbances suppressed	1,279	1,355	1,522
Drains, vaults, and nuisances reported	171	78	140
Defective dams	0	0	2
Defective lamps	2,426	851	7,538
Fire alarms given	118	124	173
Fires extinguished without alarm	82	79	94
Injured persons provided for	62	48	98
Intoxicated persons assisted home	15	3	6
Larcenies reported	1,427	1,409	1,610
Lights hung on obstructions	2,396	1,216	2,686
Lights out in stores usually lighted	38	17	44
Lost children restored	153	159	183
Rescued from suffocation	0	0	2
Rescued from drowning	2	1	5
Robberies reported	0	0	27
Runaway horses stopped	58	60	49
Runaway horses reported	131	140	181
Sidewalks reported for repairs	190	231	994
Stores found open and secured	1,637	1,537	2,386
Stray teams put up	116	54	79
Street obstructions reported	409	240	609
Suicides reported	0	0	2
Suicides prevented	0	0	1

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	1893.	1894.	1895.
Violation of building law reported.	0	4	3
Water running to waste and owners notified	73	38	71
Witnesses summoned	0	0	1

The following table exhibits the Detective Statistics for three years:

	1893.	1894.	1895.
Whole number of burglaries reported	3	0	2
Whole number of larcenies reported	1,427	1,409	1,610
Amount of property reported stolen	$38,730 48	$27,510 35	$39,705 79
Amount of property recovered in and out of city	10,526 28	8,019 61	12,263 04
Amount of property recovered by detectives	7,002 65	7,049 66	9,508 85
Amount of property recovered by department	3,525 63	969 95	2,754 19
Total amount recovered	$21,054 56	$ 8,019 61	$12,263 04
Total amount not recovered	$17,675 92	$19,490 74	$27,705 79

Amount paid the State for maintaining prisoners in jail during the year 1895:

January	$48 00	July	$00 00
February	78 28	August	89 43
March	80 00	September	116 86
April	130 86	October	135 71
May	99 14	November	117 71
June	99 43	December	113 43
Total			$1,108 85

Expenses of the Police Department for the calendar year:

January	$23,639 99	July	$25,715 81
February	27,966 29	August	28,005 92
March	23,111 67	September	27,009 54
April	23,929 19	October	25,108 14
May	26,610 88	November	26,077 15
June	26,933 05	December	24,825 75
Total			$308,933 38

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Expenses of the department for the fiscal year ending September 30, 1896:

SALARIES.

Chief	$2,250 00
Deputy Chief	1,550 00
Captains	8,935 50
Lieutenants	8,128 25
Sergeants	11,078 72
Detectives	4,104 75
Police Surgeon	1,200 00
Clerks	2,372 50
Superintendent of Hacks and Assistant	1,807 75
Warrant Officers	2,190 00
Messenger	293 32
Matrons	1,046 15
Hostler	730 00
Batteryman and Lineman	1,386 79
Engineer	336 00
Patrol Drivers	5,824 00
Janitors of the several stations	3,827 95
Patrolmen	222,329 25
Total	$279,390 93

GENERAL ACCOUNT.

Gas	$4,388 17
Signal service and telephone lines	3,462 76
Coal	3,311 47
Replacing signal service in the First District, as per Resolution of the City Council, No. 558, series of 1894	3,000 00
Board of Prisoners at Providence County Jail	968 86
1,300 feet of cable wire for subways, as per Resolution of the City Council, No. 530, series of 1894	864 50
Services of Pinkerton men	803 53
Hardware, tools and supplies	785 59
Horses	650 00
Horse shoeing	585 92
Bedding	546 13
Miscellaneous	440 56
Transportation to State Institutions	340 35
Wreaths, buttons, figures, etc	326 24
Electric lights at Station No. 1	261 25
Harnesses, repairs, etc	251 57
Amount carried forward	$20,986 90

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Amount brought forward	$20,986 90
Barn expenses	2,561 56
Signal service equipment as per resolution of the City Council No. 468, series of 1894	1,864 00
Expense of Committee of Board of Aldermen as per resolution of the City Council, No. 78, series of 1895	243 30
Completion of subway connecting Central Station with Providence Telephone Company, as per resolution of the City Council, No. 90, series of 1895	234 21
Repairs on wagons	227 69
Rations for prisoners	217 03
Traveling expenses	213 97
Ice	144 70
Attendance of veterinary surgeon and dentist	115 00
Wood	112 25
Band for annual parade	104 00
Medical attendance at Providence County Jail	75 00
Exchange of typewriter	63 00
Telephone and telegraph messages	62 55
Badges for news boys and boot blacks	50 25
Special police service	48 00
Medical attendance in emergency cases	47 00
Refreshments for officers	36 85
Rent of stable while building barn at Fourth Station	36 00
Clubs, belts, etc	27 06
Removal to new Central Police Station	21 25
Board and treatment of persons having delirium tremens	15 00
Expressage	12 65
Posting dog license notices	7 50
Typewriting	5 50
Witness fees	5 40
One half expense of opening safe in store room	5 00
Photographs of criminals	4 00
Total expense for 1895, Salaries and General Account	$306,937 55

Earnings of the department during fiscal year and paid to City Treasurer as per receipts on file.

Fines and costs received at Providence County Jail	$ 385 80
Fines and costs received in Police Court	6,697 55
Fees for registering dogs	967 20
Officers fees in Sixth District Court	5,177 55
Services at exhibitions	75 00
Sale of copies of fruit ordinance	23 05
Total	$13,326 15

Estimated value of the movable property in use at Police Headquarters, the several stations and Rhode Island Hospital:

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At Police Headquarters	$ 400 00
At Station No. 1	4,470 00
" " Stable	4,080 00
Police Signal System	4,150 00
At Station No. 2	2,400 00
" " Stable	1,500 00
Police Signal System	6,250 00
At Station No. 3	2,450 00
Police Signal System	5,384 60
At Station No. 4	1,800 00
" " Stable	1,155 00
Police Signal System	8,076 94
At Station No. 5	2,800 00
" " Stable	600 00
Police Signal System	10,000 00
At Station No. 6	2,800 00
" " Stable	1,500 00
Police Signal System	5,750 00
At Station No. 7	500 00
Police Signal System	6,538 46
Rhode Island Hospital	2,404 56
Total estimated value	$75,269 56

AT RHODE ISLAND HOSPITAL.

Property purchased under authority of City Council Resolution No. 31, series of 1892, and transferred to Rhode Island Hospital (see report of Joint Committee on Police, No. 349, series of 1892), viz.:

3 Horses	$ 695 00
1 Set of double harness	180 00
2 Single harnesses	250 00
2 Ambulances	1,050 00
5 Stretchers	13 83
12 Blankets for ambulances	39 00
2 Uniform Caps	6 70
Horse blankets, stable tools, supplies, etc.	170 03
Total	$2,404 56

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REPORT

OF THE

PROVIDENCE POLICE ASSOCIATION

For the year ending December 31, 1895.

OFFICERS

GEORGE B. LAPHAM, ... President.
EDWARD J. SMITH, ... Vice-President.
JOHN A. MURRAY, ... Secretary.
FRANK A. MATTHEWS, ... Treasurer.

DIRECTORS

PATRICK PARKER,
CHARLES B. BAIRD,
FREDERICK A. DANIELS,
JOHN W. WARD,
HERBERT C. BLOOD,
EDWARD W. BAKER,
BENJAMIN T. WHITE,
WILLIAM W. CHACE.

FINANCE COMMITTEE

WILLIAM GARDINER, STEPHEN F. BLANDING,
RICHARD A. CLARK.

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RECEIPTS.

Amount on hand January 27, 1895		$28,354 18
From net proceeds of annual ball	$3,632 23	
From interest on investments	1,025 82	
From donations	25 00	
From dues, assessments, fines, etc.	763 50	
From admission fees	60 00	
		5,506 55
		$33,860 73

EXPENDITURES.

Paid sick benefits	$1,372 00	
Paid for nurses to sick officers	65 00	
Paid miscellaneous expenses	262 56	
Paid on the deaths of wives of two members	400 00	
Paid donation to deceased officer's wife	100 00	
		2,199 56
Amount invested and in treasury, Jan. 27, 1896		$31,661 17

PELEG W. GARDINER FUND.

Consisting of sixteen shares Bank of North America stock, par value $752.00.

Amount in treasury Jan. 27, 1895	$1,149 93	
Dividends and interest	45 72	
		$1,195 65
Expenditures for the year		100 00
Amount on hand Jan. 1, 1895		$1,095 65

HENRY J. STEERE FUND.

Amount in treasury Jan. 27, 1895	$2,365 72	
Dividends	95 56	
Amount on hand Jan. 27, 1896		$2,461 28

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FORTY-FIRST ANNUAL REPORT

UPON THE

Births, Marriages and Deaths

IN THE

CITY OF PROVIDENCE

FOR THE YEAR

1895

By CHARLES V. CHAPIN, M. D.
CITY REGISTRAR



Remington Printing Co., City Printers,
63 Washington Street.
1896.

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REPORT.

CITY REGISTRAR'S OFFICE,
March 27, 1896.

TO THE HONORABLE THE CITY COUNCIL:

In accordance with Chapter 46 of the Ordinances, the City Registrar herewith presents his 41st annual report on the births, marriages and deaths in the City of Providence for the year ending December 31, 1895.

The number of births reported in the city during the year 1895 was 4,144; the number of marriages was 1,613; the number of deaths was 3,087.

The population of the city was, according to the State Census of June, 1895, 145,472, and the proportion of births, marriages and deaths was as follows:

Births, 4,144, or one in 35.10; or 28.49 in each 1,000.

Persons married, 3,226, or one in 45.09; or 22.18 in each 1,000.

Deaths, 3,087, or one in 47.12; or 21.22 in each 1,000.

Owing to the unavoidable delay in collecting records of births the returns are yet to be tabulated, and the tables will be presented later as an appendix.

Respectfully submitted,

CHARLES V. CHAPIN,
City Registrar.

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APPENDIX.

BIRTHS.

As was explained in my last report, there is always considerable delay in preparing the report on Births, Marriages and Deaths for the printer. This delay is due to the defective method prescribed by law for collecting the returns of birth. It is always necessary to correct, compare and add to the enumerators' returns, so that three or four months must elapse after the first of January before the returns of the preceding year can be considered complete. As the ordinance requires the city registrar to make a report to the City Council on or before the first day of April, it is impossible to have the tables prepared at that time, and they are therefore added by the printer in the appendix.

Although not required to do so by law until May 18, 1895, the physicians and midwives have been accustomed to report the births which they attend, and clergymen their baptisms, and it is chiefly from these sources that the enumerators' returns are corrected. At the present time physicians and midwives are required to report births in accordance with the following law:

It is enacted by the General Assembly as follows:

SECTION 1. Physicians and midwives shall, on or before the fifth day of each month, report to the clerk of each city or town a correct list of all children born therein during the month next preceding, at whose birth they were present, stating the date and place of each birth, the name of the child (if it has any), the sex and color of the child, the name, place of birth and residence of the parents, and the occupation of the father. The fee of the physician or midwife shall be twenty-five cents for each birth so reported, and shall be paid by the city or town in which the report is made.

SECTION 2. All acts and parts of acts inconsistent herewith are hereby repealed, and this act shall take effect upon its passage.

Most of the clergymens' returns and many of the doctors' are incomplete, and all such are given to the enumerators when they start on their rounds. With this aid in 1895 the enumerators brought in 3,647 returns. To the enumerators' returns were added 497, which were received complete from other sources, so that the total number of complete returns for the year 1895 was 4,144. In addition to these there were 16 which were too defective to enter into the tables, so that the total number recorded as occurring in

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the city was 4,160. As the population of the city for 1895 was, according to the State Census, 145,472, the birth rate was was 28.59. There were in 1895, 42 more births than in 1894.

TABLE I. BIRTHS, 1895. *Wards, Months, Sex, and Color.*

MONTHS.	WARDS.										Ward not stated.	Whole City.			Colored Children included in the preceding.		
	I.	II.	III.	IV.	V.	VI.	VII	VIII.	IX.	X.		Males.	Females.	Total.	Males.	Females.	Total.
January...	34	31	65	11	23	39	24	29	32	58	.	167	179	346	8	2	10
February..	25	20	59	17	25	32	21	33	42	66	1	174	167	341	3	7	10
March.....	34	19	69	7	21	38	22	9	35	59	1	153	161	314	8	1	9
1st Quarter	93	70	193	35	69	109	67	71	109	183	2	494	507	1,001	19	10	29
April..	36	24	64	10	32	33	29	20	53	54	2	194	163	357	5	2	7
May.	18	35	53	11	21	28	21	24	49	53	2	172	143	315	6	8	14
June.....	38	30	67	17	22	33	29	22	41	52	1	209	143	352	9	8	17
2d Quarter	92	89	184	38	75	94	79	66	143	159	5	575	449	1,024	20	18	38
July.....	29	42	69	12	17	42	33	29	41	59	5	215	163	378	10	5	15
August....	35	31	66	10	22	35	26	27	36	55	..	173	170	343	7	6	13
September.	29	26	71	9	25	31	24	23	45	60	3	179	167	346	4	4	8
3d Quarter.	93	99	206	31	64	108	83	79	122	174	8	567	500	1,067	21	15	36
October. ..	36	33	66	10	24	30	28	28	42	54	1	178	174	352	4	4	8
November.	27	33	56	16	34	49	16	27	42	61	2	183	180	363	6	3	9
Deecmber..	29	30	47	9	24	35	28	34	41	59	1	181	156	337	4	7	11
4th Quarter	92	96	169	35	82	114	72	89	125	174	4	542	510	1,052	14	14	28
Whole year	370	354	752	139	290	425	301	305	499	690	19	2,178	1,966	4,144	74	57	131

Ratio. The population of the city in 1895 was, according to the state census, 145,472. The ratioof the 4,144 births to population was therefore 28.48 per 1,000 inhabitants, or one in 35.10.

Season. The following figures show the aggregate number of births in each quarter of the year for the thirty-nine years, 1856 to 1894; the number in each quarter of 1895; and the same for the forty years, 1856 to 1895:

	Jan. March.	April. June.	First 6 mos.	July. Sept.	Oct. Dec.	Second 6 mos.	Whole Year.
Thirty-nine years	22,937	23,667	46,604	24,114	24,534	48,648	95,252
1895	1,001	1,024	2,025	1,067	1,052	2,119	4,144
Forty years	23,937	24,691	48,629	25,181	25,586	50,767	99,396

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Proportion of the sexes. The number of male children born in Providence in 1895 was 2178; of female children, 1966. The proportions of male and female children in each quarter and in the whole year were as follows:

	Males.	Females.	Males. Females. Males. Females.
Jan.-March	494	507	97.4 to 100 or 49.35 and 50.65 in each 100 born.
April-June	575	449	128.1 to 100 or 56.15 and 43.85 in each 100 born.
July-Sept.	567	500	113.4 to 100 or 53.14 and 46.16 in each 100 born.
Oct.-Dec.	542	510	106.2 to 100 or 51.52 and 48 48 in each 100 born.
Whole year	2,178	1,966	110.7 to 100 or 52.56 and 47.44 in each 100 born.

The following table shows the same facts for the 40 years, 1856-1895 inclusive:

	Males.	Females.	Males. Females. Males. Females.
Jan.-March	12,296	11,642,	or 105.6 to 100, or 51.37 and 48.63 in each 100 born.
April-June	12,704	11,987,	or 105.9 to 100, or 51.45 and 48.55 in each 100 born.
July-Sept	12,869	12,312,	or 104.5 to 100, or 51.11 and 48.89 in each 100 born.
Oct.-Dec	13,063	12,523,	or 104.3 to 100, or 51.06 and 48.94 in each 100 born.
40 years	50,932	48,464,	or 105.1 to 100 or 51.24 and 48.63 in each 100 born.

The following table shows the relative proportion of the sexes for the forty-two years, 1854 to 1895; it is given by periods of five years, from 1854 to 1893. The whole number of children born during the forty-two years was 102,365.

TABLE II. BIRTHS 1854 to 1895 *Proportion of the sexes.*

	Males.	Females.	Males. Females. Males. Females.
1854-1858	4,171	3,885,	or 107.4 to 100; or 51.77 and 48.23 in each 100 born.
1859-1863	4,050	3,752,	or 107.9 to 100; or 51.91 and 48.09 in each 100 born.
1864-1868	3,977	3,787,	or 105.0 to 100; or 51.22 and 48.78 in each 100 born.
1869-1873	5,056	4,946,	or 102.2 to 100; or 50.55 and 49.45 in each 100 born.
1874-1878	6,817	6.428,	or 106.0 to 100; or 51.47 and 48.53 in each 100 born.
1879-1883	7,037	6,619,	or 106.3 to 100; or 51.53 and 49.47 in each 100 born.
1884-1888	7,681	7,235,	or 106.1 to 100; or 51.49 and 48.51 in each 100 born.
1889-1893	9,437	9,209,	or 102.4 to 100; or 50.62 and 49.38 in each 100 born.
1894	2,046	2,058,	or 99.4 to 100; or 49.85 and 50.15 in each 100 born.
1895	2,178	1,966,	or 110.7 to 100; or 52.56 and 47.44 in each 100 born.
42 years	52,450	49,915,	or 105.0 to 100 or 51.24 and 48.76 in each 100 born.

The statistics for each year from 1854 to 1882, inclusive, will be found in the report for 1882, page 5; for 1883, in the report for that year, page 3; for the years 1884 to 1888, inclusive, in the

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report for 1889, page 3, and for the years 1889 to 1893 in the report for 1893, page 8.

Color. The number of colored children born in 1895 was reported as 131; this was one more than the preceding year. As the number of colored persons in the city was, according to the state census, 4,135, the ratio of births in this class would be 31.68 per thousand or 1 to each 31.56 colored inhabitants.

The colored children were born in different wards as follows: First, 24; second, 22; third, 17; fourth, 2; fifth, 5; sixth, 6; seventh, 22; eighth, 24; ninth, 9; tenth, 10.

The number in each month and quarter was:

January..... 10	April..... 7	July..... 15	October..... 8
February..... 10	May..... 14	August..... 13	November..... 9
March..... 9	June..... 17	September..... 8	December..... 11
1st Quarter..... 29	2d Quarter 38	3d Quarter 36	4th Quarter..... 28

There were 74 males and 57 females among the colored children born in 1895, a proportion of 129.8 males to each 100 females; or 56.49 males and 43.51 females in each 100 children.

The births, marriages and deaths among the colored population are given in the next table, in periods of five years, from 1856 to 1890, for 1891, 1892, 1893, 1894, and 1895, and for the whole period of forty years. The figures for the single years may be found in the reports for 1882, 1885 and 1890:

	Births.	Marriages.	Deaths.
1856-1860	222	75	267
1861-1865	228	117	291
1866-1870	421	241	385
1871-1875	512	257	543
1876-1880	511	238	529
1881-1885	565	273	558
1886-1890	581	302	632
1891	103	57	130
1892	118	63	143
1893	121	59	147
1894	130	41	145
1895	131	61	151
40 years	3,643	1,784	3,901

The proportion of deaths to births among the colored population in 1895 was 111.3 to 100; in the forty years, 1856 to 1895, the proportion was 107.1 deaths to each 100 births.

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PARENTAGE.

The following tables give statistics as to the parentage of the children born in the city; the facts are interesting and important, as showing the variety of nationalities represented and the proportion of each class.

Table III. shows how many children of each class were born in each ward of the city, and the number and percentage of each class in the whole city. The *parentage* is reckoned according to the *birthplace of the father*.

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TABLE III. BIRTHS, 1895. *Wards and Parentage.*

BIRTH-PLACES OF FATHERS.	WARDS.										Ward not stated.	Whole City.	In each 100 born there were—
	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.			
America (mother Amer'n)	95	139	180	39	94	147	155	141	115	175	8	1,288	31.08
America (mother foreign)	32	38	60	12	33	38	24	27	37	79	3	383	9.24
Foreign countries (mother American)	23	29	47	17	27	34	37	35	31	65	1	346	8.35
Ireland	94	50	108	18	71	68	16	31	67	132	1	656	15.83
Great Britain	13	18	56	2	14	45	23	27	24	108	1	331	7.99
Germany	2	9	18	2	7	8	15	6	7	7		81	1.96
British-America	15	6	16	1	5	9	6	1	5	14	2	80	1.93
French-Canada	3	2	6	4	8		9	21	5	49		107	2.58
Portugal & West'n Islands	79		1		1		1			1		83	2.00
Sweden	6	7	13	10	10	46	6	4	1	31		134	3.24
Norway	1		1		1	3		1				7	0.17
Italy		1	68	30	8		1	4	194	10	2	318	7.68
Russia	3	40	84		1	19	1		2	1		151	3.65
Poland		5	1							10		16	.39
Austria		5	7	1		4	1	1		2		21	.51
Hungary							1					1	.02
Roumania		2					1					3	.07
France					2					1		3	.07
Switzerland					2	2		1				5	.12
Denmark							1	1		1		3	.07
Holland										1		1	.02
Belgium			1							1		2	.05
Spain	1											1	.02
Turkey in Asia			1	1					2			4	.10
West Indies	1				1							2	.05
Australia					1							1	.02
India		1										1	.02
Total Foreign	218	146	381	69	132	204	82	98	307	369	6	2,012	48.56
Unknown (mother Am'n)	1	2	49	1	3	2	2	3	5			68	1.64
Unknown (mother for'gn)	1		35	1	1			1	3	2	1	45	1.09
America (moth'r unkn'wn)							1					1	.02
Both unknown									1			1	.02
Ward Totals	370	354	752	139	290	425	301	305	499	690	19	4,144	1.00

The statement given below shows the number and percentage of children of American, foreign and mixed parentage since 1856. From 1856 to 1890 the statistics are given by periods of five years; then they are given for 1891, 1892, 1893 and 1894, and for the whole period of thirty-nine years.

The figures for 1891, 1892, 1893 and 1894, however, do not include the whole number of births for those years, as there were in 1891, 82 cases, or 2.08 per cent. of all; in 1892, 94 cases, or 2.39 per cent.; in 1893, 113 cases, or 2.71 per cent.; in 1894, 107 cases, or 2.59 per cent., and in 1895, 115 cases, or 2.77 per cent., where the birth place of one or both parents was not stated. The same is true of the total for forty years; the 511 cases being 0.51 per cent. of the whole number of births during that period:

	American.		Foreign.		Am. father. For. mother.		For. father. Am. mother.	
Years.	Number.	Per ct.	Number.	Per ct.	Number.	Per ct.	Number.	Per ct.
1856-1860	3,327	39.95	4,424	53.10	292	3.51	285	3.42
1861-1865	2,706	37.57	3,809	52.88	352	4.89	336	4.66
1866-1870	3,702	41.92	4,118	46.64	447	5.06	563	6.38
1871-1875	4,722	40.23	5,353	45.61	693	5.90	970	8.26
1876-1880	5,173	39.95	5,597	43.22	929	7.17	1,251	9.66
1881-1885	5,876	40.81	5,786	40.18	1,215	8.44	1,522	10.57
1886-1890	5,884	37.62	6,686	42.74	1,474	9.42	1,598	10.22
1891	1,327	33.59	1,796	45.45	365	9.24	381	9.64
1892	1,195	30.30	1,885	47.79	405	10.27	365	9.25
1893	1,273	30.58	2,066	49.62	356	8.56	355	8.53
1894	1,255	30.57	1,996	48.63	358	8.72	388	9.45
1895	1,288	31.08	2,012	48.56	383	9.24	346	8.35
40 years	37,728	37.95	45,528	45.80	7,269	7.31	8,360	8.41

For fuller particulars for each year, see reports for 1882, page 9; 1885, page 7, and 1890, page 8.

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The percentage of children born in Providence of parents of each nation is as follows, for each of the forty years, 1856-1895 inclusive:

	American.	Irish.	English, S. & W.	German.	Am.	British Can.	French Portu.	Swedish & Norw'n.	Italian	Other For'n
	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.
1856	42.09	41.79	4.84	2.27	....	....	.....	.....	....	2.27
1857	38.51	44.32	5.92	3.73	....	....	.....	.....	....	1.54
1858	41.30	42.98	4.82	2.26	...	....	.....	.....	....	1.33
1859	37.60	45.58	5.34	3.26	....	....	.....	.....	....	1.51
1860	40.11	40.96	6.55	2.85	....	....	.....	.....	....	1.64
1861	37.91	42.61	6.03	2.49	...	....	.....	.....	....	1.97
1862	38.52	41.53	6.02	3.07	....	....	.....	.....	....	1.64
1863	35.73	43.08	6.35	2.98	....	....	.....	.....	....	1.99
1864	38.69	41.36	6.55	2.75	....	....	.....	.....	....	1.34
1865	36.67	42.99	5.93	1.85	....	....	.....	.....	....	1.93
1866	40.20	39.52	6.25	2.21	....	....	.....	.....	....	2.32
1867	39.72	37.81	5.66	3.02	....	....	.....	.....	....	2.21
1868	41.75	36.01	6.48	1.88	1.07	....	.....	.....	....	1.07
1869	45.19	34.14	4.01	1.81	1.32	....	.....	.....	...	1.38
1870	42.35	34.68	6.19	1.96	1.91	....	.....	.....	....	.90
1871	44.85	32.25	4.54	1.63	2.09	....	.....	.....	....	1.73
1872	41.12	32.46	5.67	2.77	2.31	....	.....	.....	....	2.31
1873	40.84	30.50	7.19	1.88	2.49	....	.....	.....	....	2.16
1874	38.42	32.63	8.13	2.34	2.19	....	1.22	.....	....	1.19
1875	37.50	31.53	7.60	2.85	2.67	....	.98	.....	....	1.43
1876	38.27	31.05	7.75	2.59	2.89	....	1.22	.....	....	1.25
1877	41.45	28.08	6.96	1.96	2.56	...	1.10	.....	...	1.30
1878	39.40	29.65	6.74	2.55	2.86	....	1.18	.....	....	1.71
1879	40.80	27.04	6.82	1.98	2 54	....	.96	.....	....	1.70
1880	39.90	26.15	7.50	1.67	3.27	....	1 60	.....	....	1.33
1881	40.71	23.19	9.34	2.03	3.00	....	1.07	.....	....	2.43
1882	41.10	21.99	8.72	1.97	4.16	....	1.08	.....	....	2.98
1883	40.67	21.23	9.02	2.67	3.05	....	.79	.....	....	2.23
1884	41.00	20.87	8.66	2.50	3.15	....	1.25	.....	....	3.35
1885	40.56	20.37	8.99	2.45	3.54	....	1.64	.....	....	3.27
1886	40.71	19.02	8.85	2.13	4.36	....	1.66	.....	....	4.49
1887	37.56	19.54	10.23	2.43	4.18	....	2 06	1.04	1.62	1.32
1888	39.70	17.47	9.20	1.76	3.86	....	1.95	1.53	2.81	2.14
1889	35.73	19.77	9.78	2.33	3.94	....	1.23	1.52	2.62	2.90
1890	34.82	17.44	10.15	1.76	5.18	....	2.31	1.99	4.30	2.88
1891	33.59	16.17	9.19	1.90	1.57	3.67	2.17	2.79	4.50	3.49
1892	30.30	17.09	8.82	1.95	1.50	3.35	2.89	2.45	5.17	4.57
1893	30.58	15.85	9 27	2.36	2.11	3.65	2.07	3.15	6.51	4.65
1894	30.57	15.50	8.56	2.10	2 14	3.44	2.34	3.02	7 34	4.20
1895	31.08	15.83	7.99	1.96	1.93	2.58	2.00	3.41	7.68	5.18

The British-Americans were included in the "other foreign" until 1868; the Portugese until 1874; the Swedish, Italian and Norwegian until 1887. In 1891 the French-Canadians were first reckoned separately from natives of the other British Provinces.

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Table IV. shows the parentage of the children more exactly by giving the birthplace of both parents:

TABLE IV. BIRTHS, 1895. *Parentage.*

BIRTH-PLACES OF FATHERS.	BIRTH-PLACES OF MOTHERS.												
	United States.	Ireland.	Great Britain.	Germany.	British America.	French Canada.	Portugal and Western Islan'ds.	Sweden and Norway.	Russia and Poland.	Italy.	Other Countries.	Unknown.	Whole number according to father's birth-place.
United States	1,288	153	121	12	56	28	...	9	...	...	4	1	1,672
Ireland	123	598	44	....	14	..	.	...	...	..	...	...	779
Great Britain	101	52	261	3	9	1	..	3	...	...	2	...	432
Germany	21	2	..	73	1		.	....	1		4	...	102
British America	34	17	4	...	51	7	..	1	...	..	..	...	114
French Canada	37	3	2	..	4	98	..	..		..	..	..	144
Portugal & West'n Islands	4	1	...	.	1	.	81	..		....	.	.	87
Sweden and Norway	3	4	1	1	2	.	.	133			...		144
Russia and Poland	4	...	1	6	1	.	.	.	156	....	3	...	171
Italy	9	2	3	...			.	1	.	312	.	...	327
Other Countries	10	4	3	3	....	1	1	2	5	..	29	.	58
Unknown	68	10	13	6	4	4	1	5	1	1	...	1	114
Whole number according to mother's birth-place	1,702	846	453	104	143	139	83	154	163	313	42	2	4,144

The 1,288 children whose parents were both born in the United States were 31.08 per cent. of all the children born during the year. There were, in addition to these, 383 children whose fathers were born in the United States and the mothers in some foreign country; there were, therefore, 1,671 children of American fathers, or 40.32 per cent. of all. There were also 346 children whose fathers were foreign and the mothers American; and 68 where the mother was American, the father's birth-place being unknown; a total of 1,702 children of American mothers, or 41.07 per cent. of all.

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The children of the two classes of mixed parentage numbered 729, or 17.59 per cent. of all the children born during the year. The children of purely foreign parentage in 1895 numbered 2,012, or 48.55 per cent. of all.

Number of the Child.

Table V. shows how many of the children born in 1895 were the first, second, third, etc., children of their mothers; also the same statistics for the children born during the forty-one years, 1855–1895.

Number of Child.	1895.			41 Years.
	American.	Foreign.	Total.	1855-1895.
First child of mother	544	541	1,085	25,543
Second " " "	383	477	860	20,511
Third " " "	232	390	622	15,755
Fourth " " "	160	320	480	11,852
Fifth " " "	123	237	360	8,738
Sixth " " "	77	161	238	6,274
Seventh " " "	67	105	172	4,455
Eighth " " "	44	69	113	2,997
Ninth " " "	35	47	82	1,951
Tenth " " "	19	29	48	1,307
Eleventh " " "	8	23	31	721
Twelfth " " "	4	19	23	439
Thirteenth " " "	4	8	12	202
Fourteenth " " "		4	4	94
Fifteenth " " "	1	3	4	50
Sixteenth " " "		2	2	22
Seventeenth " " "				14
Eighteenth " " "				5
Nineteenth " " "		1	1	6
Twentieth " " "				1
Twenty-third " " "				2
Statistics imperfect, not tabulated			7	57
Whole number of children	1,701	2,436	4,144	100,996

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Since 1891, when the births in this table were first distributed according to parentage, the following facts were unknown in the number of instances stated. Therefore, in all tables on this subject, the statistics are imperfect, and the number of children does not correspond with the total number born.

	Parentage of Mother Unknown.	Number of Child Unknown.
1891	9	2
1892	7	0
1893	5	13
1894	4	8
1895	2	5

The number of *first* children in 1895 was 1,085, or 26.18 per cent. of the 4,144 children born during the year. In the forty-one years, 1855 to 1895, there were 100,996 children born; of this number, 25,543 or 25.29 per cent. were the first children of their mothers.

Average Number of Children to each Mother. There were forty-one plurality births in 1895, the number of mothers, therefore, was 4,103, but in tables VI. and VII. the number of mothers for 1895 is given as only 4,096 (because of the defective statistics mentioned above); these 4,096 mothers had borne in all 13,865 children, an average of 3.38 children to each mother; the average number of children to American mothers was 3.09; to foreign mothers, 3.60.

The following table shows the average number of children to each mother in the forty-one years, 1855–95.

TABLE VI. BIRTHS, 1855 TO 1895.

Average Number of Children to each Mother.

Years.		No. of Mothers.	No. of Children.	Total No. of Children.	Average.
1855–1859		8,186	8,280	27,815	3.40 children to each mother.
1860–1864		7,456	7,553	26,784	3.59 children to each mother.
1865–1869		8,126	8,239	28,158	3.47 children to each mother.
1870–1874		10,812	10,963	35,602	3.29 children to each mother.
1875–1879		12,850	12,987	44,955	3.50 children to each mother.
1880–1884		13,937	14,090	49,881	3.58 children to each mother.
1885–1889		14,996	15,161	52,356	3.49 children to each mother.
1890–1894	Am.	8,201	8,281	25,093	3.07 children to each mother.
	For.	11,121	11,252	39,210	3.52
1895	Am.	1,685	1,701	5,202	3.09 children to each mother.
	For.	2,411	2,436	8,663	3.60
Forty-one y'rs.		99,780	100,943	343,719	3.44 children to each mother.

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TABLE VII. BIRTHS, 1895. *Number of Child with Age of Mother.*

AMERICAN MOTHERS.

AGES OF THE MOTHERS IN YEARS.	NUMBER OF THE CHILD.															Number of Mothers at each Age.	Children they bore in 1895.	Total Children they had borne.	Average Number of Children to Mothers at each Age.
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Eighth.	Ninth.	Tenth.	Eleventh.	Twelfth.	Thirteenth.	Fifteenth.					
14	1															1	1	1	1.00
15	2															2	2	2	1.00
16	9	1														10	10	11	1.10
17	*13	1														13	14	14	1.08
18	23	1	2													26	26	31	1.19
19	42	11														53	53	64	1.21
20	50	14	6													70	70	96	1.37
21	*56	26	5	2												88	89	130	1.48
22	50	24	11	1	4											90	90	155	1.72
23	44	35	19	7	2											107	107	209	1.95
24	31	48	18	7	3											107	107	224	2.09
25	49	*30	11	10	8											107	108	220	2.05
26	36	26	17	15	9											103	103	244	2.37
27	27	†37	*16	12	9	2			1							101	104	256	2.53
28	22	27	*18	15	7	*7	4	1	1	1						101	103	313	3.10
29	23	13	15	11	8	4	2		1							77	77	225	2.92
30	16	21	19	18	13	3		1	1							92	92	287	3.12
31	*9	12	18	7	4	*10	4		1							63	65	225	3.57
32	10	12	9	9	5	4	4	5	3		1	1				63	63	264	4.19
33	7	*11	9	12	11	*5	5	3	3							64	66	273	4.26
34	7	6	11	9	11	10	6	3	3	1						67	67	306	4.57
35	2	*11	10	5	5	7	5	6	4	1						55	56	268	4.87
36	5	3	2	7	7	†6	12	2	1	1	1					45	47	234	5.20
37	2	4	4	3	4	4	3	3	3	1	2					33	33	182	5.51
38	5	3	4	4	8	5	6	6	1	4	1		1			48	48	272	5.66
39	2	1	2	2	1	4	8	1	4	2	1	2				30	30	202	6.73
40		3	2		1	3	2	5	5	3	1		2			27	27	201	7.44
41		1	2	2	1	1	2	3	1	1						14	14	84	6.00
42		1	1		1	1	*4	2		3	1	1	1	1		16	17	134	8.37
43						1		2	1							4	4	31	7.75
44								1	1							2	2	17	8.50
45			1	2	1					1						5	5	26	5.20
47	1															1	1	1	1.00
Totals	544	383	232	160	123	77	67	44	35	19	8	4	4	1		1,685	1,701	5,202	3.09

* One of these mothers bore twins. † Two of these mothers bore twins.

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TABLE VII. BIRTHS, 1895. *Number of Child with Age of Mother.*

FOREIGN MOTHERS.

AGES OF THE MOTHERS IN YEARS.	NUMBER OF THE CHILD.																Number of Mothers at each age.	Children they bore in 1895.	Total Children they had borne.	Average Number of Children to Mothers at each age.
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Eighth.	Ninth.	Tenth.	Eleventh.	Twelfth.	Thirteenth.	Fourteenth.	Fifteenth.	Sixteenth.	Nineteenth.			
15....	3	....	....	....	....	....	....	..	..	..	..	..	..	..	..	..	..	3	3	3	1.00
16....	5	1	....	....	....	....	....	..	..	..	..	..	..	..	..	..	..	6	6	7	1.16
17....	5	....	....	....	....	....	....	..	..	..	..	..	..	..	..	..	..	5	5	5	1.00
18....	16	1	....	....	....	....	....	..	..	..	..	..	..	..	..	..	..	17	17	18	1.06
19....	28	6	1	1	....	....	....	..	..	..	..	..	..	..	..	..	..	36	36	47	1.30
20....	35	18	4	1	....	....	....	..	..	..	..	..	..	..	..	..	..	58	58	87	1.50
21....	44	*20	7	2	....	....	....	..	..	..	..	..	..	..	..	..	..	72	73	111	1.54
22....	*52	36	15	3	....	1	....	..	..	..	..	..	..	..	..	..	..	106	107	186	1.75
23....	56	33	10	12	2	....	....	..	..	..	..	..	..	..	..	..	..	113	113	210	1.86
24....	43	51	22	13	3	....	....	..	..	..	..	..	..	..	..	..	..	132	132	278	2.10
25....	57	*54	29	*13	7	2	....	..	..	..	..	..	..	..	..	..	..	160	162	345	2.15
26....	33	*38	36	19	12	4	3	1	..	..	..	..	..	..	..	..	..	145	146	404	2.78
27....	38	31	*46	21	17	4	*2	1	..	..	..	..	..	..	..	..	..	158	160	443	2.80
28....	36	52	41	32	28	7	6	3	..	1	..	..	..	..	..	..	..	206	206	649	3.15
29....	18	32	24	23	*16	14	6	1	1	..	..	..	..	..	..	..	..	134	135	464	3.46
30....	24	34	45	*28	22	*14	13	3	..	1	..	1	..	..	..	..	..	183	185	660	3.61
31....	4	16	14	27	19	13	3	3	..	..	..	..	..	..	..	..	..	99	99	404	4.08
32....	13	17	18	32	†28	*11	10	8	2	..	1	..	1	1	..	..	..	139	142	589	4.24
33....	7	8	18	23	15	17	13	4	4	1	..	1	..	..	..	..	..	111	111	527	4.75
34....	4	5	11	15	†20	12	5	*8	4	*3	2	1	..	..	..	..	..	86	90	450	5.23
35....	8	11	14	13	7	15	7	8	8	1	1	2	..	..	..	..	..	95	95	479	5.04
36....	....	4	5	12	7	11	6	10	5	3	3	1	1	..	..	..	..	68	68	427	6.28
37....	3	3	10	*5	*15	14	5	1	4	3	1	3	..	..	1	..	..	66	68	360	5.45
38....	3	4	8	*9	7	6	*9	9	5	4	4	*2	2	..	..	1	..	70	73	449	6.41
39....	....	....	3	6	4	*5	4	4	4	2	2	2	..	..	..	..	1	36	37	258	7.17
40....	1	....	6	4	*5	4	6	..	4	2	1	1	..	1	..	..	..	34	35	214	6.29
41....	1	....	3	1	1	3	2	1	1	..	2	1	1	..	..	..	..	17	17	115	6.76
42....	....	....	....	....	....	2	4	1	1	5	2	2	2	2	1	..	..	22	22	222	10.09
43....	....	....	....	3	....	1	*1	2	1	1	2	2	..	..	1	1	..	14	15	130	9.28
44....	....	....	....	1	1	1	....	1	2	..	2	..	1	..	..	..	..	9	9	76	8.44
46....	....	....	....	....	....	....	....	..	1	..	..	..	..	..	..	..	..	1	1	9	9.00
47....	....	....	....	....	....	....	....	..	..	1	..	..	..	..	..	..	..	1	1	10	10.00
49....	....	....	....	....	....	....	....	..	..	1	..	..	..	..	..	..	..	1	1	10	10.00
Not stat'd	4	2	....	1	1	....	....	..	..	..	..	..	..	..	..	..	..	8	8	17	2.12
Tot'ls	541	477	390	320	237	161	105	69	47	29	23	19	8	4	3	2	1	2,411	2,436	8,663	3.60

*One of these mothers bore twins. †Two of these mothers bore twins.

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The reference marks in these tables indicate the number of the first child in cases of plurality births; thus of American mothers at the age of 27, two mothers bore twins, which were their second and third children; and one mother bore twins, which were her third and fourth children; of foreign mothers at the age of 26, one mother bore twins, which were her second and third children.

The number of mothers in 1895 who were under 20 years of age was 172; 105 American and 67 foreign, or 4.21 per cent. of mothers of known age. This was 0.73 per cent. more than the average for thirty-two years and six months, the time during which a record of the ages of the mothers has been kept.

The number of mothers in 1895 who were 40 years old and over was 168; 69 American and 99 foreign, or 4.11 per cent. of mothers of known age. This was 0.74 per cent. less than the average for thirty-two years and six months.

The following table shows the number and percentage at differnt age periods of the 86,077 mothers whose ages have been recorded since July 1, 1863:

	Number of Mothers.	Per cent.
Under twenty years	2,997	3.48
Twenty, and under twenty-five	19,044	22.12
Twenty-five and under thirty	27,038	31.41
Thirty, and under thirty-five	20,208	23.48
Thirty-five, and under forty	12,616	14.66
Forty, and under forty-five	3,795	4.41
Forty-five and over	379	.44
Total	86,077	100.00

The average age of these 86,077 mothers is 28.85 years. This is 0.30 years more than the average age of the mothers of 1895, which was 28.55. The average age of *American* mothers in 1895 was 27.92 years; of *foreign* mothers, 28.99 years. The average age of the mothers for the period above mentioned is 5.06 years more than that of the brides for the last 40 years. The average age of the mothers for 1895 is 2.91 years more than that of the brides of the same year.

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During this period of thirty-two years and six months, the number of children borne by mothers whose age was stated, was 86,962; the number of children to mothers at each age was as follows:

Age of mother.	Children.	Age of mother.	Children.	Age of mother.	Children.
13	3	27	5,338	41	629
14	9	28	6,135	42	705
15	37	29	4,567	43	418
16	138	30	6,500	44	259
17	365	31	3,115	45	225
18	884	32	4,225	46	67
19	1,573	33	3,508	47	45
20	2,417	34	3,080	48	19
21	2,844	35	4,000	49	7
22	4,104	36	2,665	50	15
23	4,670	37	2,201	51	1
24	5,117	38	2,388	53	1
25	5,861	39	1,572	54	1
26	5,415	40	1,839		
All known ages					86,962

The 86,962 children were divided as follows, to mothers of different age periods:

	Number of Mothers.	Per cent.
Under twenty years	3,009	3.45
Twenty, and under twenty-five	19,152	22.23
Twenty-five, and under thirty	27,316	31.23
Thirty, and under thirty-five	20,428	23.49
Thirty-five and under forty	12,826	14.75
Forty, and under forty-five	3,850	4.42
Forty-five and over	381	43
Total	86,962	100.00

PLURALITY BIRTHS.

The number of plurality births in 1895 was 41, the same number as in 1894; number of children, 82.

Locality—First ward, 3; second, 4; third, 9; fourth, 1; sixth, 6; seventh, 2; eighth, 5; ninth, 6; tenth, 5.

Season:

January..... 2	April..... 4	July..... 4	October..... 2
February 7	May..... 4	August..... 4	November 3
March 2	June 1	September... 4	December..... 4
1st quarter...11	2d quarter.... 9	3d quarter ...12	4th quarter... 9

Sex. In 18 cases both children were males; in 10 both were females; and in 13 there was one child of each sex. There were 49 male and 33 female children.

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Color. In two cases the parents were colored; all others white.

Parentage. The parentage of the 41 cases of plurality births was as follows:

Cases.	Parentage.	Cases.	Parentage.
15	American	1	British American
5	Irish	1	French Canadian
4	English	1	American and English
4	Italian	1	Irish and American
4	Russian	1	Swiss and Irish
2	American and Br. Am.	1	Russian and Austrian
1	Scotch		

FORTY-ONE YEARS' SUMMARY OF PLURALITY BIRTHS.

In the forty one years, 1855 to 1895, there were 1,146 cases of plurality births in Providence; 1,134 of twins; 11 of triplets; and one of quadruplets.

Sex. In the case of the quadruplets, all the children were males.

Of the eleven cases of triplets, in one case, all the children were males; in six cases, all were females; and in three cases there were two male children and one female, and in one case one male and two females; making 10 male and 23 female children in the eleven cases.

In the 1,134 cases of twins, there were 379 where both children were males; in 381 both were females; and in 374 cases there was one male and one female child; in all 1,132 male, and 1,136 female children.

In the 1,146 cases of plurality births, there were 1,146 male and 1,159 female children; a proportion of 101.1 females to 100 males; or 50.28 female, and 49.72 male children in each 100 born.

Color. In the cases of triplets and quadruplets, the parents were all white; of the 1,134 cases of twins, in 1,057 the parents were white, and in 77 they were colored.

Of the quadruplets, the father was American and the mother British-American.

Parentage. Of the triplets, in one case the parents were both American; in five cases, both were Irish; in one case both were German; in one case both Italian; in one the father was English and the mother Irish; in one, the father Scotch and the mother

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Irish; and in one, the father American and the mother Irish. There was but one American mother in nine cases.

The parentage of the 1,134 cases of twins is shown in the following table, the first letter indicating the birth-place of the father, the second that of the mother:

A., American; I., Irish; E., English; S., Scotch; W., Welch; G., German; B. A., British American; F. C., French Canadian; D., Dutch; P., Portugese; It., Italian; Sw., Swedish; N., Norwegian; F., French; Br., Brazilian; R., Russian; Pol., Polish; W. I., West Indian; Aus., Austrian; Aust., Australian; A. O., Atlantic Ocean.

Parentage.	No.	Parentage.	No.	Parentage.	No.	Parentage.	No.
A. and A.	376	I. and A.	37	I. and E.	15	S. and B. A.	1
I. and I.	324	E. and A.	16	S. and E.	1	A. and Sw.	1
E. and E.	54	S. and A.	3	G. and E.	1	Aus. and R.	1
S. and S.	18	B. A. and A.	10	B. A. and E.	1	R. and Aus.	1
G. and G.	28	G. and A.	3	A. and S.	5	Swiss and S.	1
B. A. and B. A.	27	Sw. and A.	2	F. and A.	1	Swiss and I.	1
F. C. and F. C.	4	A. and I.	43	W. I. and A.	1	E. and Aust.	1
D. and D.	1	E. and I.	18	N. and E.	1	A. and F. C.	2
N. and N.	3	S. and I.	3	It. and F.	1	F. C. and A.	1
P. and P.	25	I and G.	2	I. and S.	6	G. and Pol.	1
It. and It.	24	G. and I.	1	E. and S.	2	Sw. and E.	1
Sw. and Sw.	3	B. A. and I.	4	E. and B. A.	4	A. and W.	1
P. and A.	2	Sw. and I.	1	I. and W.	2	A. O. and A.	1
R. and R.	9	It. and I.	2	A. and B. A.	13		
Pol. and Pol.	3	P. and I.	1	I. and B. A.	5	Total.	1,134
Br. and Br.	1	A. and E.	12	F. and B. A.	1		

In the 1,134 cases of twin births, 453 mothers, or 39.94 per cent., were American; 398, or 35 per cent. were Irish, and 283, or 24.96 per cent., were of other foreign nations. In the 1,146 cases of plurality births, 454 mothers were American; this was 0.97 per cent. of the 46,627 American mothers who bore children during the 41 years, 1855 to 1895; 692 mothers were foreign, which was 1.31 per cent. of the 52,882 foreign mothers who bore children during the same period.

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Proportion of plurality births to whole number. The following figures show the number and proportion of plurality births in 1895, and in the forty-one years, 1855–1895:

	Single Births.	Twin.	Triplet.	Quadruplet.	Whole No. of Births.	Whole No. of Children.
40 years, 1855-1894	94,629	1,093	11	1	95,734	96,852
1895	4,062	41	0	0	4,103	4,144
41 years, 1855-1895	98,691	1,134	11	1	99,837	100,996

Proportion of *cases* of plurality births:

	Twins.	Triplets.	Quadruplets.
1855-1894	1 in 87.6	1 in 8,703.1	1 in 91,672
1895	1 in 100.0		
1855-1895	1 in 88.0	1 in 9,076.1	1 in 99,837

Proportion of *children* of plurality births:

	Twins.	Triplets.	Quadruplets.
1855-1894	1 in 44.3	1 in 2,934.9	1 in 24,213
1895	1 in 50.5		
1855-1895	1 in 44.5	1 in 3,060.5	1 in 25,249

Proportion of plurality births by parentage. In the forty-one years, 1855 to 1895, the whole number of births was 99,837. The following table shows the number of births of American, foreign and mixed parentage, so far as known, and the number and proportion of plurality births in each of these classes:

	Whole No. Births.	Plurality Cases.	1 in	Per ct.
American parents	37,989	377	100.8	.99
Foreign parents	45,763	611	74.9	1.34
American father, foreign mother	7,233	79	91.5	1.09
Foreign father, American mother	8,341	79	105.6	.95
Total	99,326	1,146	86.6	1.15

Of the 1,146 cases of plurality births during the forty-one years, the 377 of American parentage were 32.90 per cent.; the 611 of foreign parentage were 53.32 per cent.; the 79 with American fathers

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and foreign mothers, 6.89 per cent., and the 79 with foreign fathers and American mothers, 6.89 per cent.

Illegitimacy. The number of illegitimate births recorded in Providence in 1895 was 82, or 1.98 per cent. of all the children born during the year. The actual number was undoubtedly greater than this, as the method of obtaining records by enumerators is less likely to secure accurate information on this than on any other point.

Fifty-one of these births occurred at the Providence Lying-in Hospital.

In 71 cases this was reported as the first child of the mother; in seven cases the second child; in one case the third; in one case the fourth; in one case the sixth; in one case the number of the child was not stated.

The nativity of the mothers was as follows:

United States	55	Sweden	3
Ireland	5	Great Britain	5
Canada and British Provinces	7	Italy	1
Russia	1	Germany	3
Western Islands	1	Unknown	1

The 55 mothers of American birth were 67.07 per cent. of all. Of these, 19, or 23.17 per cent. of all, were born in Providence. Twenty-one of the mothers, or 25.61 per cent. were colored.

The ages of the mothers were as follows:

Age	No. of Mothers.	Age.	No. of Mothers.	Age.	No. of Mothers.
14	1	22	8	32	3
15	2	23	4	33	1
16	4	24	4	34	1
17	4	25	2	35	1
18	12	26	2	37	1
19	8	27	2	40	1
20	10	28	2	Unknown	3
21	4	29	2		

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MARRIAGES.

The number of marriages reported in Providence for 1895 was 1,613, which was 118 more than in 1894.

The following table shows the number of marriages in each month and quarter of 1895, and each of the six years preceding; also the aggregate and average numbers for each month and quarter of the forty-one years, 1855 to 1895:

TABLE VIII. MARRIAGES. *Season.*

MONTHS.	1895.	1894.	1893.	1892.	1891.	1890.	1889.	41 Years, 1855–1895.	41 Years' Average.
January	107	140	154	127	120	115	119	3,685	90
February	138	85	123	127	91	106	101	3,224	78
March	55	69	52	82	63	59	81	2,053	50
1st quarter	300	294	329	336	274	280	301	8,962	218
April	137	152	162	126	173	155	118	3,609	88
May	95	86	119	109	92	105	105	3,393	83
June	193	196	195	195	175	150	140	4,183	102
2d quarter	425	434	476	430	440	410	363	11,185	273
July	95	97	125	96	99	93	90	3,012	74
August	109	98	124	118	114	105	106	2,877	70
September	168	149	135	149	152	127	105	3,853	94
3d quarter	372	344	384	363	365	325	301	9,742	238
October	195	160	158	183	163	165	147	4,469	109
November	217	160	181	169	155	152	160	4,738	116
December	104	103	78	111	91	98	95	3,134	76
4th quarter	516	423	417	463	409	415	402	12,341	301
Yearly totals	1,613	1,495	1,606	1,592	1,488	1,430	1,367	42,230	1,030

* After the report for 1887 was published, 52 marriages were added to the records for that year; the figures have, therefore, been corrected in this table, and in all tables where the year 1887 was included.

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The population of the city according to the state census was 145,472 and the number of persons married during the year was 3,226, a ratio of one in 45.09 or 22.18 in each 1000 of the population. The ratio of marriages was therefore 11.09 in each 1000.

Season. The following figures show the number and per cent. of marriages in each quarter of 1895, and of the forty-one years, 1855 to 1895:

	1895.		1855-1895.	
	Marriages.	Per cent.	Marriages.	Per cent.
Jan.-March	300	18.60	8,962	21.22
April-June	425	26.35	11,185	26.49
July-Sept	372	23.06	9,742	23.07
Oct.-Dec	516	31.99	12,341	29.22
Year	1613	100.00	42,230	100.00

Table IX. shows the birthplaces of the 3,226 persons married in 1895:

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TABLE IX. MARRIAGES, 1895. *Nativity of the Parties.*

BIRTH-PLACES OF GROOMS.	BIRTH-PLACES OF BRIDES.												Whole No. of Grooms.
	United States.	Ireland.	England, Scotland and Wales.	Germany.	British America.	French Canada.	Portugal and Western Islands.	Sweden.	Norway.	Italy.	Russia and Poland.	Other Countries.	
United States	721	66	64	2	28	10	2	5	1	..	..	2	901
Ireland	41	124	6	....	2	....	....	1	..	..	..	..	174
England, Scotland and Wales	67	8	76	1	7	2	....	1	..	..	..	1	163
Germany	7	1	....	14	....	....	....	1	..	..	..	3	26
British America	23	2	4	1	9	1	....	..	..	..	..	..	40
French Canada	12	....	....	....	....	24	....	1	..	..	..	..	37
Portugal and Western Islands	7	1	....	....	....	....	38	..	..	..	..	..	46
Sweden	2	1	....	....	....	....	1	64	1	..	..	2	71
Norway	....	....	....	....	....	....	....	2	4	..	..	..	6
Italy	9	....	1	....	....	....	....	..	..	70	..	2	82
Russia and Poland	2	....	....	2	....	....	....	..	..	..	27	4	35
Other Countries	9	3	1	2	3	....	....	..	..	..	..	14	32
Whole number of Brides	900	206	152	22	49	37	41	75	6	70	27	28	1,613

Bride and groom born in the same country. There were 721 marriages, in 1895, where both bride and groom were natives of the United States; 44.70 per cent. of all the marriages during the year. In 124 marriages, or 7.69 per cent., both parties were natives of Ireland.

Bride and groom born in different countries. The whole number of grooms born in the United States was 901, of these, 180, or 19.98 per cent., married foreign women. Of the 900 brides born in the United States, 179, or 19.89 per cent., married men of foreign birth. Of the 174 grooms born in Ireland, 50, or 28.74 per cent., married women of some other country; of the 206 brides born in Ireland, 82, or 39.81 per cent., married natives of some other country than their own.

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There were 32 grooms born in countries not named in the table. Their nativity was as follows: Austria, 9; Asiatic Turkey, 5; Belgium and China, 3 each; France, European Turkey, Denmark and Holland, 2 each; Finland, Switzerland, Cuba and St. Helena, 1 each.

There were 28 brides born in countries not named in the table. Their nativity was as follows: Austria, 10; France, 4; Denmark, Hungary, Switzerland and Asiatic Turkey, 2 each; Roumania, Bohemia, Holland, Finland, Australia and St. Helena, 1 each.

The following table shows the number and percentage of American, foreign and mixed marriages in the forty-one years, from 1855 to 1895; the statistics are given for periods of five years. The same statistics for each one of the twenty-eight years, 1855-1882, will be found on page 25 of the Report for 1882:

	American.		Foreign.		Mixed.	
Years.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
1855-1859	1,660	54.25	1,090	35.62	310	10.13
1860-1864	1,697	55.40	989	32.29	377	12.31
1865-1869	2,433	58.23	1,216	29.11	529	12.66
1870-1874	2,966	55.84	1,508	28.39	838	15.77
1875-1879	2,932	57.85	1,256	24.78	880	17.37
1880-1884	3,254	54.90	1,449	24.45	1,224	20.65
1885-1889	3,166	49.53	1,890	29.57	1,336	20.90
1890-1894	3,413	44.84	2,582	33.93	1,616	21.23
1895	721	44.70	533	33.04	359	22.26
Forty-one years	22,242	52.68	12,513	29.63	7,469	17.69

The whole number of marriages given in the preceding table for forty-one years is 42,224, while in Table VIII. it is 42,230; this is owing to imperfect statistics in the early records. See Report for 1879, page 22.

Marriages of colored persons. There were 58 marriages in 1895, in which both parties were colored; 2 where the man was colored and the woman white, and 1 where the man was white and the woman colored; in all, 61, or 20 more than in 1894.

The number of marriages where one of the parties was colored and the other white have been as follows in the last thirteen years: 1881, 5; 1882, 5; 1883, 1; 1884, 3; 1885, 6; 1886, 4; 1887, 7;

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1888, 4; 1889, 4; 1890, 2; 1891, 5; 1892, 3; 1893, 3; 1894, 1; 1895, 3.

The aggregate and average age of the colored persons married in 1894 were as follows:

60 males	Aggregate age, 1,799 years	Average age, 29.98 years.
59 females	Aggregate age, 1,545 years	Average age, 26.19 years.

The difference in the number of males and females is owing to the fact of the mixed marriages just alluded to. The same difference of course will be observed in the aggregate number given below for the period of forty years, 1856 to 1895, inclusive. The whole number of marriages of colored persons during that time, either one or both parties being colored, was 1,787; the aggregate and average age of the parties were as follows:

1,781 males	Aggregate age, 53,570 years	Average age, 30.07 years.
1,735 females	Aggregate age, 45,803 years	Average age, 26.40 years.

Marriages of Chinese. There were four Chinese men married in 1895; they all married white women who were born in the United States. The average age of the grooms was 32 years; of the brides, 17.7.

Table X. shows the number and percentage of brides and grooms in each division of age.

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TABLE X. MARRIAGES, 1895. *Ages of the Parties.*

AGES OF GROOMS.	AGES OF BRIDES.										Whole Number of Grooms.	Percentage of Grooms.
	Under 20 years.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.		
Under 20 years.....	12	11	.....	....	....	....	....	....	....	....	23	1.43
20 to 25.....	130	334	77	9	....	....	....	....	....	....	550	34.10
25 to 30.....	40	229	182	26	5	1	....	....	....	....	483	29 94
30 to 35.....	14	68	93	54	20	7	1	....	....	....	257	15.93
35 to 40.....	2	26	27	35	19	10	1	1	....	....	121	7.50
40 to 45.....	1	10	16	12	14	10	3	2	....	....	68	4.22
45 to 50.....	.....	3	6	10	12	9	7	1	....	....	48	2.98
50 to 55.....	.....	1	4	1	3	7	6	2	1	....	25	1.55
55 to 60...	.....	.....	3	5	1	3	5	1	1	...	19	1.18
60 to 65.....	.....	.....	.....	....	....	1	2	2	2	1	8	.50
65 to 70.....	.....	.....	.....	....	2	...	....	....	....	....	2	.12
70 to 75.....	.....	.....	.....	....	1	....	1	3	1	1	7	.43
75 to 80.....	.....	.....	.....	....	1	....	....	....	1	....	2	.12
Whole number of Brides	199	682	408	152	78	48	26	12	6	2	1,613	
Percentage of Brides.	12.34	42.28	25.30	9.42	4.84	2.98	1.61	.74	.37	.12		100.00

In 622 marriages, or 38.56 per cent. of all, the bride and groom were in the same division of age.

The aggregate and average age of persons married were as follows:

FOR THE YEAR 1895.

1,613 males.....Aggregate age, 46,999 years.....Average age, 29.14 years.
1,613 females.....Aggregate age, 41,358 years.....Average age, 25.64 years.

FOR FORTY YEARS, 1856 TO 1895.

41,581 males.....Aggregate age, 1,202,815 years.... ....Average age, 28.93 years.
41,578 females.....Aggregate age, 976,857 years..... ....Average age, 23.49 years.

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The following figures show the average age for the period of forty years, 1856 to 1895; by periods of five years from 1856 to 1890, for the years 1891, 1892, 1893, 1894 and 1895, and for the whole period. For particulars of each year, see Reports for 1882, page 28, and for 1885, page 24:

	Males.		Females.	
Years.	No.	Average age.	No.	Average age.
1856-1860	3,037	27.93 years	3,034	24.05 years.
1861-1865	3,152	28.66 years	3,152	24.54 years.
1866-1870	4,428	28.38 years	4,428	24.72 years.
1871-1875	5,432	28.63 years	5,432	24.93 years.
1876-1880	5,221	29.11 years	5,221	25.21 years.
1881-1885	5,786	29.31 years	5,786	25.67 years.
1886-1890	6,731	29.10 years	6,731	25.43 years.
1891	1,488	30.02 years	1,488	26.40 years.
1892	1,592	28.72 years	1,592	25.45 years.
1893	1,606	29.31 years	1,606	25.64 years.
1894	1,495	28.42 years	1,495	24.90 years.
1895	1,613	29.14 years	1,613	25.64 years.
Forty years	41,581	28.93 years	41,578	23.49 years.

Number of times married. Table XI. shows how many of the marriages in 1895 were the first, second or third marriages of the parties:

TABLE XI. MARRIAGES, 1895. *Number of times Married.*

GROOMS. Number of the Marriage.	BRIDES. Number of the Marriage.			Whole Number of Grooms.
	First.	Second.	Third.	
First	1,247	109	2	1,358
Second	151	75	4	230
Third	14	8	3	25
Whole Number of Brides	1,412	192	9	1,613

In 1,247 cases, or 77.31 per cent. of all, it was the first marriage of both parties. The number of grooms married for the first

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time was 1,358, or 84.19 per cent. of all; of brides, 1,412, or 87.54 per cent.

In 75 cases, or 4.65 per cent. of all, it was the second marriage of both parties.

Marriages of divorced persons. There were, in 1895, 11 marriages where both parties had been divorced; there were 42 other marriages where the man had been divorced, and 50 where the woman had been; in all, 103 marriages, or 6.39 per cent. of all, where one or both of the parties had been divorced. This was 36 more marriages and 1.91 per cent. more than in 1894.

The number and proportion of the marriages of this class in each year since 1883 have been as follows:

Year.	No.	Per ct.	Year.	No.	Per ct.
1883	95	8.07	1889	97	7.09
1884	91	7.95	1890	95	6.64
1885	74	6.78	1891	89	5.98
1886	76	6.06	1892	106	6.66
1887	100	7.48	1893	104	6.48
1888	82	6.06	1894	67	4.48
			1895	103	6.39

There were 3,226 persons married in 1895, of whom 114, or 2.47 per cent. had been divorced; 53 men and 61 women. The 103 marriages of divorced persons were performed by clergymen of the different denominations, or by civil authority, as follows:

Baptist	38	Presbyterian	2
Methodist	10	United Presbyterian	2
Unitarian	9	Roman Catholic	1
Episcopal	8	Primitive Methodist	1
Congregational	6	Hebrew	1
Universalist	6	Lutheran	1
Judges, Supreme Court	6	Evangelical	1
Christian	4	Not stated	4
Free Baptist	3		

Denominational. The, 1,613 marriages in 1895 were performed by clergymen of various denominations, or by civil authority, as follows:

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Denominational.

Roman Catholic	623	Universalist	21
Baptist	264	Justices, Supreme Court	21
Episcopal	220	Evangelical	8
Methodist	125	United Presbyterian	7
Congregational	91	Disciples of Christ	5
Lutheran	46	Primitive Methodist	4
Hebrew	36	Advent Christian	4
Presbyterian	33	New Jerusalem	2
Free Baptist	33	Church of Christ	1
Christian	31	Recognized Church of Jesus Christ	1
Unitarian	27	Not specified	10

Nativity and Residence. There were in 1895, 123 marriages, or 7.63 per cent. of all, in which both parties were natives of Providence. There were besides, 139 marriages where the groom only was born here; and in 234 the bride only. This gives a total of 619 persons married here during the year who were natives of the city; this was 19.19 per cent. of the 3,226 persons married during the year.

In 212 marriages, or 13.14 per cent. of all, both parties were non-residents of the city; this was 16 more marriages and 0.03 per cent. more than in 1894. Of these 212 marriages there were 120 where both parties were from outside the State; in 82 both parties came from Massachusetts; and in 23 others one of the parties was from that State. But the number of marriages of non-residents has decreased since the change in our marriage law, July, 1881.

Marriage Licenses. There were 1,730 marriage licenses issued in 1895 from the office of the City Registrar; this was 117 more than the number of marriages during the year. These two numbers never correspond exactly; see Report for 1886, page 26.

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The number of marriage licenses issued in each year since July 1, 1881, is as follows:

1881 (six months)	616	1889	1,475
1882	1,245	1890	1,513
1883	1,288	1891	1,607
1884	1,215	1892	1,706
1885	1,164	1893	1,690
1886	1,343	1894	1,576
1887	1,392	1895	1,730
1888	1,413		

Marriage and Education. The 3,226 persons married in Providence in 1895 were divided as follows, as to sex and nativity:

Born in the United States	Males, 901	Females	900	Total, 1,801
Born in foreign countries	Males, 712	Females	713	Total, 1,425

The number and proportion who signed the marriage certificate with a mark is shown in the following table. Many certificates are returned with the place for the signature left blank, and it is impossible to know whether this omission is due to inability to write, or to the neglect of the person performing the ceremony in not requiring the signature. These failures to sign are shown in a column by themselves, and the last two columns show the number and proportion of those who signed with a mark, and those who failed to sign, taken together:

1895	Whole No. Married.	Signed with a mark.	In each 100.	Failed to sign.	In each 100.	Total marks & failures.	In each 100.
Males born in United States	901	19	2.11	4	0.44	23	2.55
Females born in United States	900	21	2.33	20	2.22	41	4.56
Total born in United States	1,801	40	2.22	24	1.33	64	3.55
Males born in foreign countries	712	91	12.78	6	0.84	97	13.62
Females born in foreign countries	713	85	11.92	37	5.19	122	17.11
Total born in foreign countries	1,425	176	12.35	43	3.02	219	15.37
Totals	3,226	216	6.70	67	2.08	424	13.14

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There were 40 persons (19 males and 21 females) born in the United States, who signed the marriage certificate with a mark. This was 11 more than in 1894; of these 40 persons, 12 or 30.00 per cent. (6 males and 6 females,) were of white American parentage; in 1894 the proportion was 34.48 per cent.; of the other 28 persons, 10 were colored (7 males and 3 females), and 18 of foreign parentage (6 males and 12 females).

There were 176 persons born in foreign countries (91 males and 85 females) who signed with a mark; this was 60 more than in 1894. The whole number of persons signing with a mark in 1895 was 71 more than in the preceding year, and the proportion to the whole number of persons married 1.85 per cent. more.

The following figures show these facts for the period of thirty-seven years, 1859 to 1895:

1859-1895.	Whole number Married.	Signed with a mark	In each 100.
Males born in the United States	24,461	966	3.95
Females born in the United States	24,582	1,261	5.13
Total born in the United States	49,043	2,227	4.54
Males born in foreign countries	15,314	3,421	22.34
Females born in foreign countries	15,193	4,654	30.63
Total born in foreign countries	30,507	8,075	26.47
Totals	79,550	10,302	12.95

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DEATHS.

The number of deaths reported in Providence for the year 1895 was 3,087, which was 191 more than in 1894.

The population of Providence for June 1, 1895, was, according to the State census, 145,472, and the following table shows the mortality in the different classes of this population:

	Population, 1895.	Deaths, 1895.	To population one death in	Deaths in each 1,000 of population.
Total population	145,472	3,087	47.12	21.22
Males	70,038	1,539	45.51	21.97
Females	75,434	1,548	48.73	20.52
Whites	141,337	2,936	48.14	20.77
Colored	4,135*	151	27.38	36.76
Born in United States	99,255	2,229	44.53	22.45
Born in foreign countries	46,217	858	53.87	18.56
American parentage	57,534	1,223	47.04	21.26
Foreign parentage	87,938	1,864	47.18	21.20

The rate of mortality in 1895 was 2.30 more than in the preceding year. During the forty-one years from 1855 to 1895, inclusive, there were 74,360 deaths in Providence, giving an average annual death-rate of one to each 50.15 of the population, or 19.94 deaths in each 1,000 living. The death-rate in 1895 was therefore 1.28 more than the average for the whole period of forty-one years.

* Including 24 Indians, 65 Chinese, 1 Japanese.

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TABLE XII. DEATHS, 1895.

Sex, Condition, Color, Nativity, Parentage, Locality and Season.

1895.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	YEAR.
Whole number of Deaths..	231	250	323	289	236	203	296	288	236	264	224	247	3,087
Sex.—													
Males	126	129	143	138	114	108	144	147	121	136	110	123	1,539
Females	105	121	180	151	122	95	152	141	115	128	114	124	1,548
Condition.—													
Married	80	79	112	77	84	61	62	83	83	80	72	80	953
Single	113	130	157	163	122	105	200	169	116	134	106	122	1,639
Widows	30	30	38	33	21	23	26	21	21	33	29	28	333
Widowers	8	11	14	15	6	11	7	15	12	14	13	15	141
Divorced	....	....	1	1	1	3	1	....	4	3	2	2	18
Unknown	....	....	1	....	2	....	....	....	....	....	....	....	3
Color.—													
White	213	236	311	271	221	194	282	276	227	254	213	238	2,936
Colored	18	14	12	18	15	9	14	12	9	10	11	9	151
Nativity.—													
United States	170	179	227	221	165	144	224	209	162	185	159	184	2,229
Ireland	43	42	58	38	32	36	37	46	51	45	39	29	496
England, Scotland, Wales	10	13	19	16	19	3	17	12	11	16	11	10	157
Germany	....	2	2	3	4	....	1	3	1	3	4	2	25
British America	2	4	2	3	7	4	5	4	3	....	2	6	42
French Canada	2	5	2	1	2	7	4	3	2	3	1	7	39
Portugal & West. Islands	....	....	....	1	4	....	....	1	....	2	1	2	11
Sweden	....	1	2	1	....	3	....	1	1	4	2	....	15
Norway	....	....	1	1	....	....	....	....	....	....	....	....	2
Russia & Poland	....	....	4	....	....	1	....	....	1	....	....	....	6
Italy	3	3	4	4	3	4	6	6	3	2	2	6	46
Other Countries	1	1	2	....	....	1	2	3	1	4	3	1	19
Parentage.—													
American	101	106	119	129	92	82	102	105	86	101	89	111	1,223
Irish	83	77	110	84	66	57	85	90	96	85	79	72	984
English, Scotch, Welsh	19	23	39	28	25	20	40	28	20	25	20	19	306
German	2	5	7	5	8	3	3	6	5	7	6	2	59
British American	6	7	4	8	13	5	8	8	4	5	5	9	82
French Canadian	4	11	4	7	6	13	15	13	7	15	7	13	115
Portuguese	2	3	6	7	9	1	6	4	1	5	1	2	47
Swedish	2	4	3	1	3	4	3	8	2	7	2	....	39
Norwegian	....	....	1	1	....	1	....	....	....	....	....	1	4
Russian & Polish	1	2	8	....	1	1	5	3	2	2	1	....	26
Italian	6	6	19	17	11	15	22	19	11	7	12	16	161
Other foreign	5	6	3	2	2	1	7	4	2	5	2	2	41
Locality, Wards.—													
I	18	20	26	25	25	17	20	24	15	20	15	21	246
II	19	19	30	17	18	15	16	14	18	21	10	19	216
III	30	32	55	27	26	18	33	32	30	34	30	22	369
IV	15	14	14	16	11	8	13	13	7	9	6	11	137
V	16	29	20	23	22	14	23	21	14	19	13	15	229
VI	22	19	23	21	18	8	15	24	17	19	20	29	235
VII	21	15	33	31	18	19	14	17	20	18	10	12	228
VIII	21	20	17	24	23	15	22	26	15	18	24	19	244
IX	21	27	31	24	24	21	41	34	31	31	32	36	353
X	31	27	46	37	28	24	51	38	28	42	32	28	412
Public Institutions, etc	17	28	28	44	23	44	48	45	41	33	32	35	418
Totals	231	250	323	289	236	203	296	288	236	264	224	247	3,087

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Season. The largest monthly total of deaths in 1895 was 327, in March; the smallest, 203, in June.

The following figures show the number of deaths in each quarter of each of the last six years; also the aggregate and average number of deaths in each quarter of the year, in the total for forty-one years, from 1855 to 1895, inclusive:

	1895.	1893.	1892.	1891.	1890.	41 years, 1855-1895. Aggregate.	Average.
January-March	804	847	816	607	864	18,602	454
April-June	728	802	686	618	635	17,049	416
July-September	820	787	826	665	754	20,802	507
October-December	735	703	636	740	624	17,907	437
Totals	3,087	3,139	2,964	2,630	2,877	74,360	1,814

The following shows the number and percentage of deaths in Providence in each quarter of the year, in the aggregate for 31 years, from 1855 to 1885, inclusive; for the period of five years, 1886 to 1890, inclusive, and for each year since 1890:

	Jan.-March		April-June		July-Sept.		Oct.-Dec.	
	Deaths.	Per ct.	Deaths.	Per ct.	Deaths.	Per ct.	Deaths.	Per ct.
1855-1885	11,283	24.17	10,598	22.70	13,342	28.58	11,459	24.55
1886-1890	3,424	26.42	2,917	22.50	3,577	27.60	3,044	23.48
1891	607	23.08	618	23.50	665	25.28	740	28.14
1892	816	27.53	686	23.14	826	27.87	636	21.46
1893	847	26.98	802	25.55	787	25.07	703	22.40
1894	821	28.34	700	24.17	785	27.10	590	20.37
1895	804	26.05	728	23.58	820	26.56	735	23.81

Sex and Parentage. The sex of the decedents, by parentage, in Providence, is shown in the following table, in periods of five years each, from 1861 to 1890, inclusive, and for each year since 1890:

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	American Parentage.			Foreign Parentage.		
	Males.	Females.	Total.	Males.	Females.	Total.
1861-1865	1,401	1,474	2,875	1,401	1,395	2,796
1866-1870	1,407	1,499	2,906	1,387	1,332	2,719
1871-1875	1,978	2,158	4,136	2,150	2,192	4,342
1876-1880	2,179	2,354	4,533	2,593	2,772	5,365
1881-1885	2,380	2,635	5,015	3,011	3,086	6,097
1886-1890	2,673	2,807	5,480	3,696	3,786	7,482
1891	531	552	1,083	799	748	1,547
1892	596	583	1,179	908	875	1,783
1893	662	646	1,248	980	911	1,891
1894	569	587	1,156	884	856	1,740
1895	598	625	1,223	941	923	1,864
35 years	14,914	15,920	30,834	18,750	18,876	37,626

Civil Condition. The 3,087 decedents in 1895, and the 2,896 decedents in 1894 were divided as follows as to condition and parentage:

Civil condition.	American Parentage.			Foreign Parentage.		
	1895.	1894.	Total.	1895.	1894.	Total.
Married	364	341	705	589	603	1,192
Single	588	596	1,184	1,051	896	1,947
Widows	187	137	324	146	159	305
Widowers	67	60	127	74	76	150
Divorced	15	17	32	3	2	5
Unknown	2	5	7	1	4	5
Totals	1,223	1,156	2,375	1,864	1,740	3,604

Of the 2,379 decedents of American parentage in the two years, 1,184 or 49.77 per cent., were single, and 1,188 or 49.37 per cent., were married or had been.

Of the 3,604 decedents of foreign parents, 1,947, or 54.02 per cent. were single, 1,652 or 45.84 per cent. were married or had been; of twelve the civil condition was not stated, 7 of American, 5 of foreign parentage.

Color. The white decedents of 1895 were 2,936 in number, 1,082 of American, 1,854 of foreign parentage. There were 151 colored decedents, which was 6 more than in 1894; 10 of these were of foreign parentage.

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Nativity and Parentage. The nativity and parentage of the decedents is given in Table XII. The following figures show what difference there is between the two classes:

1895.	Nativity.	1895.	Parentage.
United States	2,229	American	1,223
Ireland	496	Irish	984
England and Scotland	157	English and Scotch	306
Germany	25	German	59
British America	42	British-American	82
" " (French)	39	French-Canadian	115
Portugal and Western Islands	11	Portuguese	47
Russia	6	Russian	26
Sweden	15	Swedish	39
Norway	2	Norwegian	4
Italy	46	Italian	161
Other countries	19	Other foreign	41
Totals	3,087		3,087

The 19 decedents born in other foreign countries than those named in the table were as follows: Born in Austria, France and Switzerland, 3 each; in Turkey in Asia 2; and 1 each in Africa, Denmark, China, Holland, Isle of Man, Japan, Spain and St. Helena.

There were 41 decedents of other foreign parentage as follows: Austrian, 10; French, Swiss and Turkish (Asiatic), 6 each; Roumanian and Spanish, 2 each; and African, "Annobon Island," Belgian, Chinese, Danish, Dutch, Manx, St. Helena and West Indian, 1 each.

Locality. The following figures show the number of decedents by parentage in each ward of the city in 1894 and 1895:

	American.		Foreign.			American.		Foreign.	
Wards.	1895.	1894.	1895.	1894.	Wards.	1895.	1894.	1895.	1894.
I.	99	100	147	158	VII.	133	133	95	91
II.	118	111	98	115	VIII.	126	127	118	114
III.	88	76	281	258	IX.	113	88	240	176
IV.	78	83	59	46	X.	94	91	318	321
V.	108	100	121	124	Public Institutions	161	139	257	215
VI.	105	108	130	122					
Totals						1,223	1,156	1,864	1,740

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The decedents in public institutions in each of the last five years have been as follows: It will be seen from the table that the term *Public Institutions*, for this purpose, includes not only hospitals and other public institutions, but also hotels, rivers, ponds, the streets, etc., where persons happen to die away from their usual residences:

	1895.	1894.	1893.	1892.	1891.
Rhode Island Hospital	169	166	129	134	91
Butler Hospital	21	15	14	14	15
Homœpathic Hospital	12	16	17	14	8
St. Joseph's Hospital	44	23	29	21	0
Dexter Asylum	16	11	13	17	24
Home for Aged Men	3	0	0	2	1
Home for Aged Women	4	6	5	5	9
Home for Aged Colored Women	1	1	4	0	1
Children's Home	3	0	0	2	0
St. Elizabeth Home	5	6	0	2	0
Shelter for Colored Children	1	0	0	0	0
Home of the Holy Nativity	0	1	0	0	0
Friends School	0	1	0	0	0
Field's Point Hospital	0	2	0	0	0
St. Maria's Home	0	0	0	0	1
Rhode Island Nursery	26	12	21	14	11
St. Aloysius Asylum	1	1	7	6	0
St. Vincent de Paul Asylum	20	15	29	51	0
Working Men's Home	0	0	1	2	0
R. C. Convent	2	3	3	2	0
State Home and School	0	0	0	0	1
Lying-In Hospital	16	34	17	10	4
Hotels	5	1	1	6	2
Private Hospitals	4	0	0	0	0
Police Station	2	0	2	2	1
Bays, Rivers and Ponds	15	13	11	15	11
Others	48	27	20	36	11
Unknown	0	0	1	1	0

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Aggregate and Average Age, and Season. The following table (XIII.) shows the number of deaths, and the aggregate and average age of the decedents, in Providence, *according to parentage*, in each month, and in the whole year, 1895:

TABLE XIII. DEATHS, 1895.

Aggregate and Average Age by Parentage.

MONTHS, 1895.	American Parentage.			Foreign Parentage.			Total American and Foreign.		
	Number of Deaths.	Aggregate Age.	Average Age.	Number of Deaths.	Aggregate Age.	Average Age.	Number of Deaths.	Aggregate Age.	Average Age.
January	101	3,720	36.83	130	4,131	31.77	231	7,851	33.99
February	106	4,271	40.29	144	4,319	29.99	250	8,590	34.36
March	119	4,534	38.10	204	6,140	30.09	323	10,674	33.05
April	129	4,772	36.99	160	4,197	26.23	289	8,969	31.03
May	92	3,253	35.36	144	4,049	28.12	236	7,302	30.94
June	82	3,424	41.76	121	3,321	27.45	203	6,745	33.23
July	102	2,556	25.06	194	4,308	22.21	296	6,864	23.19
August	105	3,209	30.56	183	4,724	25.81	288	7,933	27.55
September	86	3,188	37.07	150	4,356	29.04	236	7,544	31.97
October	101	3,898	38.59	163	4,875	29.91	264	8,773	33.23
November	89	4,139	46.51	135	3,838	28.43	224	7,977	35.17
December	111	4,679	42.15	136	4,189	30.80	247	8,868	35.90
Totals	12.23	45,643	37.32	1,864	52,447	28.14	3,087	98,090	31.77

The average age of decedents of American parentage was 9.18 years greater than that of decedents of foreign parentage. The average age of all decedents in 1895 was 0.59 greater than in 1894; of decedents of American parentage 1.79 more, and of foreign parentage 2.12 less.

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The following table, XIV., gives the aggregate and average age of the decedents, by months and by parentage, in the aggregate for the forty years from 1856 to 1895, inclusive:

TABLE XIV. DEATHS. FORTY YEARS, 1856–1895.

Aggregate and Average Age by Parentage.

FORTY YEARS, 1856-1895.	American Parentage.			Foreign Parentage.			Total American and Foreign.		
	Number of Deaths.	Aggregate Age.	Average Age.	Number of Deaths.	Aggregate Age.	Average Age.	Number of Deaths.	Aggregate Age.	Average Age.
January.....	3,126	116,884	37.39	3,454	104,872	33.62	6,580	221,756	33.70
February.....	2,684	97,466	36.31	3,035	85,392	28.14	5,719	182,858	31.97
March.....	2,876	104,743	36.42	3,214	91,707	28.53	6,090	196,450	32.26
April.....	2,816	100,295	35.61	3,229	94,463	29.25	6,045	194,758	32.22
May.....	2,703	100,800	37.29	3,040	91,495	30.10	5,743	192,295	33.48
June.....	2,300	82,383	35.82	2,753	77,095	28.00	5,053	159,478	31.56
July.....	3,014	77,344	25.66	4,128	88,154	21.36	7,142	165,498	23.17
August.....	3,156	89,831	28.46	4,053	89,103	21.98	7,209	178,934	24.82
September....	2,638	80,227	30.41	3,474	84,508	24.33	6,112	164,735	26.95
October.....	2,592	88,902	34.30	3,226	86,002	26.66	5,818	174,904	30.06
November.....	2,559	91,091	35.60	3,084	86,973	28.20	5,643	178,064	31.55
December.....	2,938	110,137	37.49	3,277	97,524	29.76	6,215	207,661	33.41
Totals.....	33,402	1,140,103	34.13	39,967	1,077,288	26.95	73,369	2,217,391	30.22

The average age of American decedents during this period of forty years was 7.18 greater than that of the foreign class.

In the reports for 1882, 1885 and 1886, more extended comparisons are made between the two classes of decedents, in the matter of age.

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Parentage of decedents at different ages. The next table (XV.) shows the number and percentage of the decedents, *by parentage*, in the different divisions of ages in 1895, and also in the aggregate for forty years, from 1856 to 1895, inclusive:

TABLE XV. DEATHS, 1895.

AGES.	American Parentage, 1895.		Foreign Parentage, 1895.		Total American & Foreign 1895.		Forty Years, 1856-1895.	
	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.
Under 1 year	267	21.83	389	20.87	656	21.25	14,471	19.72
1 and under 2	47	3.84	116	6.22	163	5.28	5,255	7.16
2 " " 5	60	4.91	133	7.14	193	6.25	5,645	7.70
Total under 5	374	30.58	638	34.23	1,012	32.78	25,371	34.58
5 and under 10	36	2.94	59	3.17	95	3.08	3,201	4.36
10 " " 15	27	2.21	27	1.45	54	1.75	1,391	1.90
15 " " 20	33	2.70	47	2.52	80	2.59	2,327	3.17
20 " " 30	92	7.52	227	12.18	319	10.33	7,292	9.94
30 " " 40	61	4.99	228	12.23	289	9.36	6,723	9.17
40 " " 50	93	7.60	191	10.25	284	9.20	6,009	8.19
50 " " 60	102	8.34	176	9.44	278	9.01	6,030	8.22
60 " " 70	135	11.04	154	8.26	289	9.36	6,143	8.37
70 " " 80	158	12.92	88	4.72	246	7.97	5,468	7.45
80 " " 90	102	8.34	23	1.23	125	4.05	2,884	3.93
90 and over	10	.82	6	.32	16	.52	530	.72
Total	1,223	100.00	1,864	100.00	3,087	100.00	73,369	100.00

The following table shows the ratio of deaths under one year to births according to parentage, in periods of five years each, from 1856 to 1890, each year since 1890, and for the whole period of forty years, from 1856 to 1895:

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Ratio of Deaths to Births.

Periods.	American Parentage. Births.	Deaths under 1 year.	Ratio of Deaths under 1 year to Births.	Foreign Parentage. Births.	Deaths under 1 year.	Ratio of Deaths under 1 year to Births.
1856-1860	3,621	431	11.87	4,707	585	12.43
1861-1865	3,056	414	13.54	4,147	593	14.30
1866-1870	4,149	511	12.31	4,681	595	12.72
1871-1875	5,415	787	14.53	6,323	970	15.34
1876-1880	6,102	810	13.27	6,848	1,013	14.79
1881-1885	7,091	995	14.03	7,308	1,099	15.04
1886-1890	7,358	1,136	15.71	8,284	1,327	16.01
1891	1,698	251	14.78	2,178	325	14.92
1892	1,601	291	18.17	2,251	348	15.46
1893	1,629	286	17.55	2,421	400	16.52
1894	1,613	287	17.79	2,385	361	15.13
1895	1,672	267	15.97	2,358	389	16.50
1856-1895	45,005	6,466	14.37	53,891	8,005	14.85

The following table shows the percentage of decedents in Providence, under 5 years of age, according to parentage, in periods of five years each, 1856 to 1890; also in each year since 1890, and in the whole period of forty years, from 1856 to 1895, inclusive:

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TABLE XVI.

Percentage under 5 years according to Parentage.

PERIODS.	American Parentage, 40 years, 1856-1895.			Foreign Parentage 40 years, 1856-1895.			American and Foreign Parentage, 40 years, 1856-1895.		
	Total Deaths.	Deaths under 5 years.	Percentage under 5 years.	Total Deaths.	Deaths under 5 years.	Percentage under 5 years.	Total Deaths.	Deaths under 5 years.	Percentage under 5 years.
1856-1860	2,567	856	33.35	2,340	1,218	52.05	4,907	2,074	42.27
1861-1865	2,875	882	30.68	2,796	1,342	48.00	5,671	2,224	39.22
1866-1870	2,906	804	27.67	2,719	1,128	41.49	5,625	1,932	34.35
1871-1875	4,136	1,297	31.36	4,342	1,788	41.18	8,478	3,085	36.39
1876-1880	4,533	1,547	34.13	5,365	2,145	39.98	9,898	3,692	37.30
1881-1885	5,015	1,613	32.16	6,097	1,859	30.49	11,112	3,472	31.25
1886-1890	5,480	1,880	34.31	7,482	2,299	30.73	12,962	4,179	32.24
1891	1,083	365	33.70	1,547	463	29.93	2,630	828	31.48
1892	1,180	400	33.90	1,784	500	28.03	2,964	900	30.36
1893	1,248	411	32.93	1,891	628	33.20	3,139	1,039	33.10
1894	1,156	398	34.43	1,740	536	30.80	2,896	934	32.25
1895	1,223	374	30.58	1,864	638	34.23	3,087	1,012	32.78
40 years	33,402	10,827	32.41	39,967	14,544	36.39	73,369	25,371	34.58

For a consideration of the true comparison of the death rates of the two classes of the population see report for 1894, page 45.

During the 15 years, from 1840 to 1854, inclusive, of all the decedents in the city, 43.56 in each 100 were under 5 years of age; from 1856 to 1880, inclusive, of all the decedents 37.55 in each 100

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were under 5 years; from 1881 to 1891, of all decedents 31.75 in each 100 were under 5 years, showing a progressive decrease in the mortality at this age.

In the 56 years, 1840 to 1895, inclusive, there were 86,514 decedents in Providence, of whom 31,106, or 35.95 per cent., were under 5 years of age. The number and percentage in each division of age under 5 years were as follows:

Whole number of decedents in 56 years	86,514.	
Under one year of age	16,976	19.62 per cent. of all.
One and under two years	7,038	8.13 per cent. of all.
Two and under five years	7,092	8.20 per cent. of all.
Total under five years	31,106	35.95 per cent. of all.

The following table (XVII.) shows the number and percentage, by parentage, of the decedents in each division of ages, in the 40 years, from 1856 to 1895 inclusive:

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TABLE XVII. DEATHS, 1856-1895.

Numbers and Percentage at Different Ages According to Parentage.

AGES.	American Parentage, 40 years, 1856-1895.		Foreign Parentage, 40 years, 1856-1895.		Total American and Foreign, 40 years, 1856-1895.	
	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.
Under 1 year.....	6,466	19.36	8,005	20.02	14,471	21.25
1 and under 2.....	2,056	6.15	3,199	8.01	5,255	5.28
2 and under 5.....	2,305	6.90	3,340	8.36	5,645	6.25
Total under 5... ..	10,827	32.41	14,544	36.39	25,371	32.78
5 and under 10.....	1,467	4.39	1,734	4.34	3,201	3.08
10 and under 15.....	665	1.99	726	1.82	1,391	1.75
15 and under 20.....	972	2.92	1,355	3.39	2,327	2.59
20 and under 30.....	2,549	7.64	4,743	11.86	7,292	10.33
30 and under 40.....	2,591	7.76	4,132	10.24	6,723	9.36
40 and under 50.....	2,516	7.50	3,493	8.74	6,009	9.20
50 and under 60.....	2,722	8.15	3,308	8.28	6,030	9.01
60 and under 70.....	3,174	9.51	2,969	7.43	6,143	9.36
70 and under 80.....	3,474	10.40	1,994	4.98	5,468	7.97
80 and under 90.....	2,101	6.30	783	1.96	2,884	4.05
90 and over.....	344	1.03	186	.47	530	.52
Totals	33,402	100.00	39,967	100.00	73,369	100.00

Deaths by age, parentage, and season. The next table (XVIII.) shows the number of decedents, by parentage, in Providence, in each division of ages, in each month and each quarter of the year, 1895. The table shows considerable difference in the proportion of decedents, by parentage, in the different seasons of the year.

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TABLE. XVIII. *Deaths by Age and Parentage in each Month and Quarter, 1895.*

	Divisions of the Year.	Divisional Periods of Life.															All Ages.
		Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 to 100.	100 and over.	
American Parentage.	January	23	5	5	2	2	4	6	5	6	11	10	12	10	....	....	101
	February	22	6	4	....	1	2	8	6	6	13	14	14	8	2	....	106
	March	22	4	5	4	2	4	16	4	5	10	17	18	7	1	....	119
	1st Quarter.	67	15	14	6	5	10	30	15	17	34	41	44	25	3	....	326
	April	29	4	8	7	1	3	6	8	10	6	16	20	11	....	....	129
	May	25	2	5	1	4	2	7	1	10	5	11	11	7	1	....	92
	June	13	5	....	5	1	5	2	6	7	9	9	10	10	....	....	82
	2d Quarter.	67	11	13	13	6	10	15	15	27	20	36	41	28	1	....	303
	July	43	3	3	3	5	3	6	3	7	5	9	5	5	1	1	102
	August	34	6	6	3	3	3	6	4	3	4	9	17	7	....	....	105
	September.	21	4	3	2	2	..	7	5	6	11	7	10	8	....	....	86
	3d Quarter.	98	13	12	8	10	6	19	12	16	20	25	32	20	1	1	293
	October	16	6	5	2	3	1	8	10	9	12	7	12	10	....	....	101
	November.	8	1	6	3	2	2	7	2	12	8	11	17	10	....	....	89
	December	11	1	10	4	1	4	13	7	12	8	15	12	9	4	....	111
	4th Quarter.	35	8	21	9	6	7	28	19	33	28	33	41	29	4	....	301
	Whole Year.	267	47	60	36	27	33	92	61	93	102	135	158	102	9	1	1,223
Foreign Parentage.	January	14	6	12	5	2	5	20	16	15	12	18	3	1	1	....	130
	February	24	8	10	1	3	5	27	15	15	10	16	7	3	....	....	144
	March	47	12	15	1	1	2	26	30	12	18	22	16	1	1	....	204
	1st Quarter.	85	26	37	7	6	12	73	61	42	40	56	26	5	2	....	478
	April	34	12	14	12	2	2	11	23	15	12	12	8	3	....	....	160
	May	21	10	13	7	3	5	17	17	18	15	10	7	1	....	....	144
	June	27	8	9	3	1	4	13	18	5	18	8	7	....	....	....	121
	2d Quarter.	82	30	36	22	6	11	41	58	38	45	30	22	4	....	....	425
	July	75	11	11	5	2	8	13	13	19	12	13	9	2	1	....	194
	August	55	12	4	6	6	1	19	25	18	13	14	6	2	2	....	183
	September.	34	7	7	2	3	5	15	20	23	18	9	2	5	....	....	150
	3d Quarter.	164	30	22	13	11	14	47	58	60	43	36	17	9	3	....	527
	October	27	8	17	6	1	3	17	22	21	15	15	9	1	....	1	163
	November.	17	10	14	6	1	4	22	12	18	15	9	6	1	....	....	135
	December	14	12	7	5	2	3	27	17	12	18	8	8	3	....	....	136
	4th Quarter.	58	30	38	17	4	10	66	51	51	48	32	23	5	....	1	434
	Year.	389	116	133	59	27	47	227	228	191	176	154	88	23	5	1	1,864
Total Americ'n and Foreign.		656	163	193	95	54	80	319	289	284	278	289	246	125	14	2	3,087

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The whole number of American decedents was 1,223; of decedents of foreign parentage, 1,864. The percentage of each class in the different quarters of the year was as follows:

	1st Quarter.	2d Quarter.	3d Quarter.	4th Quarter.
American parentage	26.66	24.77	23.96	24.61
Foreign parentage	25.65	22.80	28.27	23.28

Table XVIII. shows the relative mortality at different ages and seasons. Of the 293 American decedents in the third quarter, 98, or 33.45 per cent., were less than a year old. The whole number of American decedents under one year was 267; the 98 who died in the third quarter were 36.70 per cent. of this number.

Of decedents of foreign parentage, the number in the third quarter was 527; of these 164, or 31.12 per cent., were less than one year old; the whole number of foreign decedents of this age was 389; the 164 dying in the third quarter of the year were 42.16 per cent. of the whole number.

Causes of Death. Table XIX. gives the number of deaths in Providence in 1895 from each cause stated, and in each division of ages; also the number of decedents from each cause, according to sex and parentage; the percentage of deaths from each cause, of the whole number from known causes, and also the number of deaths from each cause to 100,000 of the population.

Season and Disease. Table XX. shows the number of deaths from some of the most prominent causes, in each month and quarter of the year 1895, showing the comparative mortality from different diseases at different seasons.

Totals for a period of years. Table XXI. gives the number of deaths from the principal causes for a period of years, distributed according to sex and parentage, and also the ratio of deaths from each cause to the total deaths for the same period.

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TABLE XIX. DEATHS, 1895. *Disease, Sex, Age, Parentage, Percentage from Known Causes, Ratio per 100,000 of Population.*

CAUSES OF DEATH.	SEX.			DIVISIONAL PERIODS OF LIFE.													PARENTAGE.			Ratio of Deaths from each cause to whole No. from known causes.	RATIO PER 100,000 OF POPULATION.		
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.	Total.		American.	Foreign.	Total.
Abscesses	5	4	9	2	....	....	1	..	..	....	1	3	1	1	....	....	..	5	4	9	.29	8.69	4.54	6.18
Accidents (various)	47	6	53	....	....	4	4	4	2	13	9	7	4	1	3	2	..	9	44	53	1.73	15.64	50.03	36.43
" Asphyxia	2	1	3	2	....	....	..	..	..	....	1	....	....	....	....	....	..	.....	3	3	.10	.....	3.41	2.06
" Burns and Scalds	4	8	12	....	....	2	..	3	1	1	....	2	2	1	....	....	..	5	7	12	.39	8.69	7.96	8.24
" Drowning	14	1	15	....	....	1	5	4	..	2	1	1	1	....	....	....	..	5	10	15	.49	8.69	11.37	10.31
" Falls	16	3	19	....	....	1	1	1	..	3	2	2	3	3	2	1	..	4	15	19	.62	6.95	17.05	13.06
" Poisoning	14	3	17	....	2	1	..	..	..	7	4	2	....	....	1	....	..	6	11	17	.56	10.42	12.50	11.68
" Railroad	13	.....	13	....	....	....	..	1	1	6	2	2	....	....	1	....	..	7	6	13	.43	12.16	6.82	8.93
Addison's Disease	.....	1	1	....	....	....	..	..	..	....	....	1	....	....	....	....	..	.....	1	1	.03	.....	1.13	.68
Alcoholism	8	2	10	....	....	....	..	..	..	1	2	3	3	1	....	....	..	2	8	10	.33	3.47	9.09	6.87
" Delirium Tremens	3	.....	3	....	....	....	..	..	..	1	1	1	....	....	....	....	..	.....	3	3	.10	.....	3.41	2.06
Anæmia	2	2	4	1	....	....	..	..	1	1	....	....	....	....	1	....	..	.....	4	4	.13	.....	4.54	2.74
Aneurism	3	1	4	....	....	....	..	..	..	....	2	....	....	....	1	1	..	3	1	4	.13	5.21	1.13	2.74
Apoplexy	51	80	131	....	....	....	..	1	..	....	5	17	18	35	33	22	..	69	62	131	4.29	119.92	70.50	90.05
Appendicitis	8	6	14	....	....	....	1	..	4	4	2	3	....	....	....	....	..	6	8	14	.46	10.42	9.09	9.62
Asthma	1	3	4	....	....	....	..	..	..	....	1	....	1	1	1	....	..	.....	4	4	.13	.....	4.54	2.74
Atelectasis	2	1	3	3	....	....	..	..	..	....	....	....	....	....	....	....	..	1	2	3	.10	1.73	2.27	2.06
Biliary Calculi	2	2	4	....	....	....	..	..	..	....	....	1	1	2	....	....	..	1	3	4	.13	1.73	3.41	2.74
Bones, Diseases of	3	2	5	....	....	....	..	2	..	....	1	1	....	1	....	....	..	4	1	5	.16	6.95	1.13	3.43
" Otitis Media	1	.....	1	1	....	....	..	..	..	....	....	....	....	....	....	....	..	1	.....	1	.03	1.73	.....	.68
Brain, Congestion of	5	4	9	....	5	1	..	..	..	1	1	....	....	....	....	1	..	3	6	9	.29	5.21	6.82	6.18
" Diseases of	13	15	28	....	....	....	1	..	..	....	2	2	5	5	10	2	1	17	11	28	.92	29.54	12.50	19.24
" Inflammation of	24	23	47	21	3	12	2	1	..	....	2	4	1	....	....	1	..	23	24	47	1.54	39.97	27.29	32.30
Bronchitis	59	64	123	44	18	16	1	..	2	1	1	3	5	6	18	6	2	42	81	123	4.03	73.00	92.11	84.55
Cancer (various)	20	24	44	....	....	....	..	..	..	2	6	8	9	10	6	3	..	20	24	44	1.44	34.76	27.29	30.24
" of Breast	.....	15	15	....	....	....	..	..	..	1	1	3	3	4	1	2	..	9	6	15	.49	15.64	6.82	10.31
" of Stomach	8	9	17	....	....	....	..	..	..	....	2	2	5	6	2	....	..	7	10	17	.56	12.16	11.37	11.68
" Uteri	.....	20	20	....	....	....	..	..	..	2	3	6	3	3	2	1	..	12	8	20	.66	20.85	9.09	13.74

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TABLE XIX. DEATHS, 1895. *Disease, Sex, Age, Parentage, Percentage, from Known Causes, Ratio per 100,000 of Population.*

CAUSES OF DEATH.	SEX.			DIVISIONAL PERIODS OF LIFE.													PARENTAGE.			Deaths from each cause to whole No. from known causes.	RATIO PER 100,000 OF POPULATION.		
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.	Total.		American.	Foreign.	Total.
Cellulitis	3	2	5	1	....	1	....	....	....	....	1	....	....	....	2	....	..	3	2	5	.16	5.21	2.27	3.43
Child Birth	....	13	13	....	....	....	....	....	....	4	6	3	....	....	....	....	..	2	11	13	.43	3.47	12.50	8.93
" " Puerperal Fever	....	11	11	....	....	....	....	....	1	5	5	....	....	....	....	....	..	3	8	11	.36	5.21	9.09	7.56
" " PuerperalConvulsions	....	4	4	....	....	....	....	....	....	1	3	....	....	....	....	....	..	2	2	4	.13	3.47	2.27	2.74
Cholera Infantum	80	68	148	128	18	2	....	....	....	....	....	....	....	....	....	....	..	43	105	148	4.84	74.73	119.40	123.32
" Morbus	2	7	9	....	....	....	....	2	....	1	1	1	3	1	....	....	..	3	6	9	.29	5.21	6.82	6.18
Convulsions	29	19	48	33	7	6	2	....	....	....	....	....	....	....	....	....	..	22	26	48	1.57	38.23	29.56	32.99
Croup	12	13	25	4	8	10	3	....	....	....	....	....	....	....	....	....	..	12	13	25	.82	20.85	14.78	17.18
Cystitis	6	....	6	....	....	....	....	....	....	....	1	1	1	....	1	2	..	2	4	6	.20	3.47	4.54	4.12
Debility	12	17	29	19	....	....	....	....	....	....	....	2	2	3	3	....	..	9	20	29	.95	15.64	22.74	19.93
" Premature Birth	31	16	47	47	....	....	....	....	....	....	....	....	....	....	....	....	..	30	17	47	1.54	52.14	19.33	32.30
Diabetes	7	10	17	....	....	....	....	....	....	....	3	3	5	4	2	....	..	11	6	17	.56	19.11	6.82	11.68
Diarrhœa	8	14	22	15	4	....	....	....	....	....	....	....	....	....	....	3	..	9	13	22	.72	15.64	14.78	15.12
" Chronic	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	..	....	1	1	.03	.....	1.13	.68
Difficult Labor	2	1	3	3	....	....	....	....	....	....	....	....	....	....	....	....	..	2	1	3	.10	3.47	1.13	2 06
Diphtheria	45	34	79	4	7	42	21	3	1	1	....	....	....	....	....	....	..	27	52	79	2.58	46.92	59.13	54.30
Dropsy	....	6	6	....	....	....	....	....	....	....	....	2	1	1	2	....	..	3	3	6	.20	5.21	3.41	4.12
Dysentery	5	8	13	2	....	....	....	1	2	1	....	2	2	2	1	..	3	10	13	.43	5.21	11.37	8.93
Embolism	4	4	8	....	....	....	....	....	....	2	1	....	....	3	2	....	..	3	5	8	.26	5.21	5.68	5.49
Emphysema	1	1	2	....	....	....	....	....	....	....	....	....	....	2	....	....	..	1	1	2	.07	1.73	1.13	1.37
Empyema	1	1	2	....	....	....	....	....	....	....	....	....	1	1	....	....	..	2	....	2	.07	3.47	.....	1.37
Enteritis	8	17	25	13	3	1	....	....	....	1	....	1	3	1	1	1	..	6	19	25	.82	10.42	21.60	17.18
" Colo	13	5	18	9	2	2	....	....	....	....	....	1	3	....	1	....	..	4	14	18	.59	6.95	15.92	12.37
" Gastro	21	39	60	35	4	3	....	1	....	1	2	4	2	6	2	....	..	24	36	60	1.97	41.71	40.93	41.24
Epilepsy	5	2	7	....	....	1	....	....	....	1	1	2	1	....	1	....	..	6	1	7	.23	10.42	1.13	4.81
Erysipelas	6	5	11	4	....	....	....	....	....	1	1	1	1	3	....	....	..	1	10	11	.36	1.73	11.37	7 56

TABLE XIX. DEATHS, 1895. *Disease, Sex, Age, Parentage, Percentage from Known Causes, Ratio per 100,000 of Population.*

CAUSES OF DEATH.	SEX.			DIVISIONAL PERIODS OF LIFE.													PARENTAGE.			Ratio of Deaths from each cause to whole No. from known causes.	RATIO PER 100,000 OF POPULATION.		
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.	Total.		American.	Foreign.	Total.
Fever, Catarrhal	1	.....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	..	1	.....	1	.03	1.73	.....	.68
" Malarial	6	2	8	1	1	1	1	....	....	2	1	1	....	....	....	....	..	3	5	8	.26	5.21	5.68	5.49
" Typhoid	29	17	46	....	....	....	1	5	..	21	8	6	3	1	1	....	..	21	25	46	1.51	36.50	28.42	31.62
" Remittent	1	.....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	..	1	.....	1	.03	1.73	.....	.68
Furuncles	.....	1	1	1	....	....	....	....	....	....	....	....	....	....	....	....	..	1	.....	1	.03	1.73	.....	.68
Gangrene	2	.....	2	....	....	....	....	....	....	....	....	1	1	....	....	....	..	1	1	2	.07	1.73	1.13	1.37
Hemorrhage	4	3	7	5	....	....	....	....	....	1	....	....	1	....	....	....	..	2	5	7	.23	3.47	5.68	4.81
Heart, Diseases of	78	127	205	1	....	1	1	2	4	9	23	23	42	53	34	11	1	94	111	205	6.71	163.38	126.22	140.92
Heat	2	.....	2	....	....	....	....	....	....	1	....	....	....	1	....	....	..	.....	2	2	.07	.....	2.27	1.37
Hernia	3	2	5	....	....	....	....	....	....	2	....	....	....	1	2	....	..	2	3	5	.16	3.47	3.41	3.43
Hodgkin's Disease	.....	2	2	....	....	....	....	....	....	1	....	....	....	....	1	....	..	1	1	2	.07	1.73	1.13	1.37
Homicide	4	.....	4	....	....	....	....	....	....	2	2	....	....	....	....	....	..	1	3	4	.13	1.73	3.41	2.74
Hydrocephalus	5	3	8	5	2	1	....	....	....	....	....	....	....	....	....	....	..	5	3	8	.26	8.69	3.41	5.49
Icterus Neonatorum	2	1	3	3	....	....	....	....	....	....	....	....	....	....	....	....	..	2	1	3	.10	3.47	1.13	2.06
Inanition	19	10	29	26	2	....	....	....	....	....	....	....	....	....	....	1	..	13	16	29	.95	22.50	18.19	19.93
Indigestion	8	11	19	15	1	....	....	....	....	1	....	....	....	1	....	....	..	11	8	19	.62	19.11	9.09	13.06
Influenza	16	24	40	9	1	3	....	....	....	5	4	....	4	4	6	4	..	15	25	40	1.31	26.07	28.42	27.49
Injury at Birth	3	3	6	6	....	....	....	....	....	....	....	....	....	....	....	....	..	4	2	6	.20	6.95	2.27	4.12
Insanity	11	13	24	....	....	....	....	....	....	3	1	1	3	4	9	2	1	20	4	24	.79	34.76	4.54	16.49
" General Paralysis	5	5	10	....	....	....	....	....	....	....	....	3	2	....	4	1	..	9	1	10	.33	15.64	1.13	6.87
Intestinal Obstruction	5	5	10	2	....	....	....	1	2	1	3	1	....	....	....	....	..	2	8	10	.33	3.47	9.09	6.87
Intussusception	3	.....	3	1	....	....	....	....	....	....	....	1	....	....	1	....	..	2	1	3	.10	3.47	1.13	2.06
Kidneys, Diseases of	6	5	11	1	....	....	....	....	....	....	1	1	2	3	2	1	..	5	6	11	.36	8.69	6.82	7.56
" Bright's Disease	36	38	74	....	....	1	2	..	3	3	8	13	19	16	8	1	..	31	43	74	2.42	53.88	48.89	50.86
" Nephritis	39	33	72	....	....	1	2	1	3	5	8	14	8	16	11	3	..	35	37	72	2.36	60.83	42.07	49.49
" Uræmia	1	5	6	....	....	....	....	....	....	3	2	1	....	....	....	....	..	1	5	6	.20	1.73	5.68	4.12

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TABLE XIX. DEATHS, 1895. *Disease, Sex, Age, Parentage, Percentage from Known Causes, Ratio per 100,000 of Population.*

CAUSES OF DEATH.	SEX.			DIVISIONAL PERIODS OF LIFE.													PARENTAGE.			Ratio of Deaths from each cause to whole No. from known causes.	RATIO PER 100,000 OF POPULATION.		
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.	Total.		American.	Foreign.	Total.
Liver, Diseases of	7	4	11	1	....	....	....	....	....	....	2	2	4	....	1	1	..	3	8	11	.36	5.21	9.09	7.56
" Cirrhosis of	7	9	16	....	....	....	....	....	....	1	2	5	6	2	....	....	..	5	11	16	.52	8.69	12.50	10.99
Malformations	15	5	20	20	....	....	....	....	....	....	....	....	....	....	....	....	..	9	11	20	.66	15.64	12.50	13.74
Marasmus	25	23	48	43	3	1	....	....	....	....	....	....	....	....	....	1	..	23	25	48	1.57	39.97	28.42	32.99
Measles	18	22	40	7	19	8	5	1	....	....	....	....	....	....	....	....	..	7	33	40	1.31	12 16	37.52	27.49
Meningitis, Cerebro-Spinal	3	4	7	3	....	2	....	....	1	....	....	1	....	....	....	....	..	4	3	7	.23	6.95	3.41	4.81
Miscarriage	....	1	1	....	....	....	....	....	....	1	....	....	....	....	....	....	..	1	....	1	.03	1.73	.....	.68
Neglect	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	..	....	1	1	.03	.....	1.13	.68
Œdema of Larynx	....	1	1	....	....	....	1	....	....	....	....	....	....	....	....	....	..	....	1	1	.03	.....	1.13	.68
Old Age	23	33	56	....	....	....	....	....	....	....	....	....	....	1	19	28	8	35	21	56	1.83	60.83	23.88	38.49
" " Gangrene	2	....	2	....	....	....	....	....	....	....	....	....	....	....	....	1	1	2	....	2	.07	3.47	.....	1.37
Paralysis	5	14	19	1	....	....	....	1	....	1	1	2	....	6	4	2	1	11	8	19	.62	19.11	9.09	13.06
Parotiditis	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	..	....	1	1	.03	.....	1.13	.68
Peritonitis	8	8	16	2	1	....	....	2	1	4	2	2	2	....	....	....	..	6	10	16	.52	10.42	11.37	10 99
Pernicious Anæmia	1	5	6	....	....	....	....	....	....	....	1	1	2	2	....	....	..	5	1	6	.20	8.69	1.13	4 12
Phthisis	167	188	355	5	7	4	7	5	34	127	82	40	27	7	8	2	..	109	246	355	11.63	189.45	279.74	244.03
Pleurisy	3	1	4	....	....	....	....	1	....	....	....	1	1	1	....	....	..	....	4	4	.13	.....	4.54	2.74
Pneumonia	149	132	281	45	16	13	4	3	7	26	30	40	34	33	21	9	..	89	192	281	9.20	154.69	218.33	193.16
" Congestion of Lungs	2	5	7	1	1	....	....	....	....	....	2	1	....	1	....	1	..	3	4	7	.23	5.21	4 54	4.81
Prostate, Disease of	10	....	10	....	....	....	....	....	....	....	....	....	....	2	2	5	1	9	1	10	.33	15.64	1.13	6.87
Rachitis	1	3	4	1	1	2	....	....	....	....	....	....	....	....	....	....	..	2	2	4	.13	3.47	2.27	2.74
Renal Calculi	1	1	2	....	....	....	....	....	....	....	....	1	....	1	....	....	..	1	1	2	.07	1.73	1.13	1.37
Rheumatism	9	6	15	....	....	....	....	1	1	3	2	2	2	3	1	....	..	4	11	15	.49	6.95	12.50	10.31
Salpingitis	....	6	6	....	....	....	....	....	....	3	3	....	....	....	....	....	..	3	3	6	.20	5.21	3.41	4 12
Scarlet Fever	30	34	64	4	6	27	20	5	1	1	....	....	....	....	....	....	..	24	40	64	2.10	41.71	25.48	43.99

TABLE XIX. DEATHS, 1895. *Disease, Sex, Age, Parentage, Percentage from Known Causes, Ratio per 100,000 of Population.*

CAUSES OF DEATH.	SEX.			DIVISIONAL PERIODS OF LIFE.													PARENTAGE.			Deaths from each cause to whole No. from known causes.	RATIO PER 100,000 OF POPULATION.		
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.	Total.		American.	Foreign.	Total.
Scrofula	1		1			1													1	1	.03		1.13	.68
Septicæmia	5	3	8	1					1		3		1	2				5	3	8	.26	8.69	3.41	5.49
Spinal Cord, Diseases of	7	4	11	1	1	1					2	2	2	2				4	7	11	.36	6.95	7.96	7.56
Spleen, Diseases of		1	1							1								1		1	.03	1.73		.68
Stomach, " "	7	6	13	1					1	3	2	2	3	1				2	11	13	.43	3.47	12.50	8.93
" Gastritis	8	12	20	1	1	3	1		1		2	2	5	2	2			7	13	20	.66	12.16	14.78	13.74
Suicide	9	2	11							2	4	2	1	1		1		6	5	11	.36	10.42	5.68	7.56
Surgical Operation	1		1											1					1	1	.03		1.13	.68
Syphilis	2	1	3							1	1		1					2	1	3	.10	3.47	1.13	2.06
" Congenital	1	1	2	2															2	2	.07		2.27	1.37
Tabes Mesenterica	3		3	2			1											1	2	3	.10	1.73	2.27	2.06
Teething	7	4	11	7	4													7	4	11	.36	12.16	4.54	7.56
Tetanus	1	4	5	1		1		1		1		1						2	3	5	.16	3.47	3.41	3.43
Thrombosis	1	1	2												2			2		2	.07	3.47		1.37
Tubercular Meningitis	13	13	26	10	6	4	2		1	2			1					11	15	26	.85	19.11	17.05	17.87
Tuberculosis	23	23	46	5	1	5	3	3	5	13	3	3	1	2	2			18	28	46	1.51	31.28	31.84	31.62
Tumors	5	15	20			1				1	4	5	4	4	1			8	12	20	.66	13.90	13.64	13.74
Ulcer	1		1											1				1		1	.03	1.73		.68
Urethra Rupture of	1		1								1								1	1	.03		1.13	.68
" Stricture of	1		1										1					1		1	.03	1.73		.68
Whooping Cough	14	13	27	15	8	3	1											5	22	27	.88	8.69	25.01	18.56
Unknown	22	12	34	8		2	1		1	1	3	5	6	5	2			8	26	34		13.90	29.56	38.66
Totals	1,539	1,548	3,087	656	163	193	95	54	80	319	289	284	278	239	246	125	16	1,223	1,864	3,087	100.00	2125.70	2119.68	2122.06

TABLE XX. DEATHS, 1895. *Season and Disease.*

CAUSES OF DEATH.	January.	February.	March.	First Quarter.	April.	May.	June.	Second Quarter.	July.	August.	September.	Third Quarter.	October.	November.	December.	Fourth Quarter.	Whole Year.
Accidents	11	9	12	32	12	5	6	23	16	17	20	53	8	7	9	24	132
Alcoholism					1	1	2	4	3			3	1	1	4	6	13
Apoplexy	12	16	8	36	17	6	9	32	10	9	11	30	8	15	10	33	131
Brain Diseases	8	10	4	22	12	9	3	24	9	6	4	19	10	5	4	19	84
Bronchitis	11	15	22	48	15	13	4	32	5	7	3	15	7	10	11	28	123
Cancer	7	7	9	23	8	5	11	24	4	9	13	26	8	8	7	23	96
Child Birth	4	3	3	10	2	3	2	7	4		1	5	3		3	6	28
Cholera Infantum					1	1	12	14	60	46	18	124	9		1	10	148
" Morbus		2		2		1		1	2	3		5	1			1	9
Convulsions	6	4	6	16	7	5	3	15	5	1	1	7	4	3	3	10	48
Croup	4	3	2	9	2	1	2	5	1		1	2	5	4		9	25
Debility	3	4	1	8	3	3	2	8	2	3	2	7	2	2	2	6	29
" Premature Birth	4	6	4	14	9	5	3	17	2	8	1	11	1	2	2	5	47
Diarrhœa						3	1	4	6	6	6	18	1			1	23
Diphtheria	6	1	2	9	2	4	7	13	4	6	9	19	10	13	15	38	79
Dysentery					1		2	3	3	1	3	7	1	1	1	3	13
Enteritis	1	3	7	11	5	8	4	17	28	18	9	55	15	3	2	20	103
Erysipelas	2	3	2	7	1	1		2	1			1		1		1	11
Fever, Typhoid		3	1	4	1	4	3	8	1	3	4	8	8	6	12	26	46
" Malarial, &c					1			1	2	2	2	6	2		1	3	10
Heart Diseases	14	18	21	53	19	19	16	54	14	11	10	35	18	20	25	63	205
Influenza	1	6	20	27	10	1	1	12						1		1	40
Insanity	4	2	3	9	3	2	2	7	2	4	2	8		7	3	10	34
Kidneys, Diseases of	13	18	12	43	18	12	9	39	13	15	15	43	19	9	11	39	164
Liver, " "	4	2	5	11		3	2	5	1	1	3	5		4	2	6	27
Malformations	2	1	2	5	3	2	2	7	2	1	1	4		2	2	4	20
Marasmus	3	1	5	9	3	5	4	12	7	8	3	18	4	2	3	9	48
Measles	3	2	8	13	5	5	4	14	2			2	2	6	3	11	40
Meningitis, Cerebro-Spinal			1	1	1	1		2					2	1	1	4	7
Old Age	6	4	6	16	6	4	4	14	3	6	3	12	9	1	6	16	58
Paralysis	3		1	4	1		2	3	5		1	6	3	1	2	6	19

TABLE XX.—CONCLUDED. DEATHS, 1895 *Season and Disease.*

CAUSES OF DEATH.	January.	February.	March.	First Quarter.	April.	May.	June.	Second Quarter.	July.	August.	September.	Third Quarter.	October.	November.	December.	Fourth Quarter.	Whole Year.
Peritonitis	1	1	2	4	1	4	1	6	1	.....	2	3	.....	2	1	3	16
Phthisis	40	30	40	110	27	32	25	84	26	30	29	85	22	28	26	76	355
Pneumonia	24	38	56	118	34	19	5	58	8	10	10	28	19	21	37	77	281
Congestion of Lungs	.....	2	1	3	.....	.....	.....	.....	.....	1	.....	1	1	.....	2	3	7
Rheumatism	.....	.....	2	2	.....	6	2	8	.....	.....	1	1	2	.....	2	4	15
Scarlet Fever	8	7	12	27	16	6	4	26	2	4	.....	6	2	2	1	5	64
Stomach, Diseases of	4	1	1	6	1	5	7	13	3	1	4	8	2	1	3	6	33
Suicide	1	.....	1	2	2	2	.....	4	.....	2	2	4	1	.....	.....	1	11
Teething	2	2	.....	4	3	.....	2	5	.....	1	1	2	.....	.....	.....	.....	11
Tubercular Meningitis	1	2	4	7	3	4	1	8	1	2	2	5	2	3	1	6	26
Tuberculosis	.....	4	3	7	3	1	5	9	8	8	2	18	6	5	1	12	46
Tumors	2	2	2	6	2	1	2	5	2	2	.....	4	4	.....	1	5	20
Whooping Cough	.....	1	.....	1	2	3	1	6	5	4	6	15	2	2	1	5	27
Unknown	3	1	1	5	3	2	5	10	1	3	4	8	4	2	5	11	34
Other Causes	13	16	31	60	23	19	21	63	22	29	27	78	36	23	21	80	281
Totals	231	250	323	804	289	236	203	728	296	288	236	820	264	224	247	735	3,087

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TABLE XXI.

Deaths from a number of principal causes for forty years, 1856-1895.

FORTY YEARS, 1856-1895.	AMERICAN.		FOREIGN.		MALES.		FEMALES.		Total Deaths.	Ratio per 100,000 of population.
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.		
Abscess	91	5.30	114	5.86	102	5.84	103	5.37	205	5.60
Accidents	794	46.31	1,463	75.24	1,703	97.66	554	28.93	2,257	61.69
Alcoholism	114	6.65	325	16.71	314	18.00	125	65.28	439	11.99
Aneurism	27	1.57	41	2.10	50	2.86	18	.94	68	1.85
Apoplexy	1,286	75.02	899	46.23	1,036	59.41	1,149	60.00	2,185	59.72
Brain, Diseases of	1,321	77.06	1,217	62.59	1,370	78.56	1,168	60.99	2,538	69.37
Bronchitis	802	46.78	1,092	56.16	876	50 23	1,018	53.16	1,894	51.77
Cancer	1,167	68 07	847	43.56	544	31.19	1,470	76.77	2,014	55.05
Child Birth	272	15.86	475	24.43	.....	.....	747	39.01	747	20.41
Cholera Infantum	1,446	84.35	2,331	119.88	1,956	112.17	1,821	9.51	3,777	103.23
Convulsions	756	44.10	1,034	53.18	949	54.42	841	43.92	1,790	48.92
Croup	490	28.58	725	37.28	622	35.67	593	30.98	1,215	33.21
Debility	642	37.45	752	38.67	734	42.09	660	34.46	1,394	38.10
Diarrhœal Diseases	2,931	170.98	4,376	225.06	3,652	209.43	3,655	19.08	7,307	199.75
*Diphtheria	1,021	59.56	1,200	61.71	1,109	63.59	1,112	58.07	2,221	60.70
Erysipelas	161	9.39	174	8.94	164	9.40	171	8.93	335	9.15
Fever, Typhoid	964	56.23	1,084	55.75	1,097	62.96	951	49.66	2,048	55.97
Heart Disease	2,272	132.54	2,026	104.20	2,032	116.53	2,266	118.34	4,298	117.48
Heat	4	.23	62	3.18	56	3.21	10	.52	66	1.80
Hernia	59	3.44	74	3.80	65	3.72	68	3.55	133	3.63
†Inanition	109	6.35	114	5.86	122	6.99	101	5.27	223	6.09
Insanity	334	19.48	139	7.14	220	12.61	253	13.21	473	12.92
Kidneys, Diseases of	915	53.57	1,035	53.23	1,049	60.15	901	47.05	1,950	53.30

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TABLE XXI.—CONCLUDED.

Deaths from a number of principal causes for forty years, 1856–1895.

FORTY YEARS, 1856-1895.	AMERICAN.		FOREIGN.		MALES.		FEMALES.		Total Deaths.	Ratio per 100,000 of population.
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.		
Liver, Diseases of	343	20.00	473	24.32	416	23.85	400	20.89	816	22.39
Malformations	230	13.41	169	8.69	246	14.10	153	7.99	399	10.90
Marasmus	586	34.18	613	31.52	656	37.62	543	28.35	1,199	32.77
Measles	178	10.38	352	18.10	270	15.48	260	13.56	530	14.48
‡Meningitis, Cerebro-Spinal	107	6.24	110	5.65	116	6.65	101	5.27	217	5.93
Old Age	1,426	83.18	1,010	51.94	802	45.99	1,634	85.33	2,436	66.58
Paralysis	574	33.48	279	14.34	403	23.11	450	23.50	853	23.31
Peritonitis	275	16.04	284	14.60	227	13.01	332	17.33	559	15.27
Phthisis	4,263	248.68	6,600	339.45	5,123	293.79	5,740	29.97	10,863	296.95
Pneumonia	2,688	156.80	3,382	173.94	3,125	179.21	2,945	15.38	6,070	165.91
Rheumatism	119	6.94	171	8.79	128	7.34	162	8.40	290	7.92
Scarlet Fever	1,127	65.74	1,658	85.27	1,348	77.30	1,437	75.04	2,785	76.12
Small Pox	50	2.91	35	1.80	63	3.61	22	1.14	85	2.32
Suicide	158	9.21	156	8.02	237	13.59	77	4.02	314	8.58
§Tuberculosis	318	18.55	278	14.29	293	16.80	303	15.82	596	16.29
Whooping Cough	350	20.41	472	24.27	374	21.44	448	23.39	822	22.46
Unknown	260	15.16	489	25.15	390	22.36	359	18.74	749	20.47

* For 38 years, 1858-1895. † For 13 years, 1882-1895.

‡ For 32 years, 1864-1895. § For 28 years, 1867-1895.

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NOTES ON THE CAUSES OF DEATH

During the Year 1895.

These notes are in explanation of the facts given in tables XIX., XX. and XXI.

The percentage of deaths from the different causes has always been reckoned on the number of deaths from *known* causes, except in table XXI.

The number of deaths in Providence in 1895 was 3,087; of these there were 34 cases, or 1.10 per cent., where no cause of death could be determined or recorded; the number from known causes, therefore, and on which all the percentages are recorded, was 3,053.

In the forty years, 1856 to 1895, inclusive, there were 73,369 deaths in Providence; 749, or 1.02 per cent., for which no cause was given, the number from *known causes* being 72,620. In the 56 years, 1840 to 1895, inclusive, there were 86,514 deaths; of 1,751, or 2.02 per cent., the cause was not stated; the number of deaths from *known causes* in this period being 84,763.

Abscess. The number of deaths from abscess in 1895 was 9, 3 less than in 1894. The location of the abscesses so far as specified was as follows: One each cervical, of the groin, of the liver, multiple, of the parotid gland, perinephritic and phæyngeal.

Accidents. There were 132 deaths from accidents in 1895, or 46 more than in 1894. There were 3 deaths from asphyxia, 12 from burns and scalds, 15 from drowning, 20 from falls, 17 from poisoning, 13 railroad accidents, and 52 from various other accidents.

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The following shows the number of deaths from the different causes by five year periods for the forty years from 1856 to 1895:

YEARS.	Asphyxia.	Burns and Scalds.	Drowning.	Falls.	Poison.	Railroad.	Various.	Totals.
1856-1860.....	..	31	20	19	10	17	45	142
1861-1865.....	6	33	28	33	6	17	37	160
1866-1870.....	4	26	23	43	10	19	37	162
1871-1875.....	3	31	45	54	11	40	58	242
1876-1880.....	9	49	59	45	12	26	80	280
1881-1885.....	10	43	54	73	16	42	116	354
1886-1890.....	14	47	64	91	19	55	105	395
1891-1895.....	35	56	66	82	38	65	180	522
Totals.....	81	316	359	440	122	281	658	2,257

The "various accidents," and indeed the exact nature of the accidents generally, were not so carefully specified in past years as at the present time, so that it is not possible to present strictly accurate statistics in regard to them. In the report for 1894 certain notes may be found concerning these "various" accidents for preceding years.

During 1895 the causes of death by accidents, so far as specified, were as follows:

Asphyxia. Of the deaths by asphyxia one was during delivery, one was by bed clothes, and one following emesis of solid matter.

Burns and Scalds. Of the deaths from this cause two were by falling into hot water, one caught fire from stove, one fell with lighted lamp, one clothes caught fire, one was from explosion of lamp, and one from explosion of oil stove.

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Falls. Four were from fall on stairs, two fall from roof, two fall on sidewalk, and one each from scaffolding, ladder, rope, tree, wagon, wall, down hatchway, down elevator shaft, and against wash tub, upon lead pencil (fracture of palate).

Poisoning. There were twelve deaths from poisoning by illuminating gas, and one each from gas in cesspool, overdose of patent medicine, arsenic, chloride of lime and muriatic acid.

Various Accidents. There were fifty-two accidents of various kinds which caused deaths as follows: Fracture of ribs three, of skull three, of femur two, of hip one, of patella one, of leg one, boiler explosion five, run over by electric car three, by ice cart two, by cart three, crushed by timber two, crushed leg and arm one, crushed by bucket two, crushed by paddle wheel one, electric shock two, injury to spine two, to hip one, hit by block of wood one, elevator accident two, machinery accident one, kicked by horse four, thrown down by horse one, jumped from train one, thrown from vehicle two, collision of bicycle and low gear one, puncture of chest by wagon shaft one, wound of thigh one, dislocation of vertebræ one, concussion of brain one, street gas explosion one.

Apoplexy. This was given as the cause of 131 deaths in 1895; two more than in 1894. The following table gives the deaths from this disease for periods of five years from 1856 to 1895. It will be seen from this table that there has been a continual increase in this disease during the past 40 years. There has been practically no difference in the incidence of apoplexy upon males and females, but there is a very great difference as regards persons of American and foreign parentage:

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DECEDENTS FROM APOPLEXY, 40 YEARS, 1856-1895.

YEARS.	PARENTAGE.				SEX.				Total Deaths.	Ratio per 100,000 of population.
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.		
1856-60.....	63	44	24	23	44	38	43	32	87	33
1861-65.....	63	42	23	20	40	33	46	33	86	32
1866-70.....	103	59	31	23	60	42	74	45	134	43
1871-75.....	124	57	53	26	87	43	90	41	177	42
1876-80.....	153	63	87	31	123	49	117	43	240	47
1881-85.....	241	96	153	48	176	65	218	73	394	68
1886-90.....	256	99	235	64	228	76	263	80	491	79
1891-95.....	283	103	293	70	278	83	298	83	576	83
40 years..	1,286	75	899	46	1,036	59	1,149	60	2,185	60

Bones, Diseases of. There were six cases of disease of the bones, of which four were due to necrosis, and one to osteo-malacia.

Brain, Diseases of. The number of deaths reported from diseases of the brain was 84, or 10 more than in 1894. Of these 47 were called inflammation, 9 congestion, 8 softening, 3 degeneration, 2 paralysis, 2 sclerosis, 2 tumor, and 1 each, abscess, atheroma, effusion, and multiple cerebro-spinal-sclerosis.

Bronchitis was returned as the cause of 123 deaths in 1895; this was one more than in the preceding year. For particulars see the table on the two following pages.

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Bronchitis in Providence, Forty Years, 1856–1895.

Sex, Parentage, Season; Age; Whole Number and Ratio to Known Causes.

BRONCHITIS.	1856 to 1860.	1861 to 1865.	1866 to 1870.	1871 to 1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	Totals.
Whole number	26	33	56	117	46	44	47	34	56	53	60	57	62	77	82	83	86	107	133	117	148	125	122	123	1,894
Percentage	0.55	0.60	1.01	1.40	2.49	2.27	2.38	1.68	2.71	2.49	2.68	2.46	2.78	3.57	3.45	3.18	3.30	4.30	4.65	4.47	5.02	4.00	4.25	4.03	261
SEX:																									
Males	16	12	22	51	20	21	18	12	29	33	21	28	23	40	25	47	38	56	66	50	64	67	58	59	876
Females	10	21	34	66	26	23	29	22	27	20	39	29	39	37	57	36	48	51	67	67	84	58	64	64	1,018
PARENTAGE:																									
American	13	18	24	45	20	25	19	18	22	27	24	24	28	43	44	29	29	42	61	48	58	52	47	42	802
Foreign	13	15	32	72	26	19	28	16	34	26	36	33	34	34	38	54	57	65	72	69	90	73	75	81	1,092
SEASON:																									
January	4	5	8	13	1	8	7	6	2	6	7	5	7	9	8	11	12	10	19	12	33	17	13	11	234
February	....	4	9	10	6	1	9	4	6	5	7	5	9	7	9	7	12	18	8	10	22	15	12	15	210
March	4	3	4	8	4	3	6	5	8	3	5	5	5	13	11	14	11	14	14	8	12	12	18	22	219
April	4	5	4	15	4	3	5	4	9	6	4	8	7	10	13	7	9	16	17	12	11	16	16	15	220
May	2	6	4	4	5	4	3	2	6	8	6	5	5	4	3	5	9	7	20	8	10	12	7	13	158
June	3	....	4	9	3	2	4	3	4	4	6	4	1	6	5	6	6	4	12	6	6	7	4	4	113
July	2	....	3	10	3	2	2	....	1	....	3	3	4	3	4	2	6	7	5	5	11	2	9	5	92
August	1	1	1	3	1	3	1	2	3	4	2	2	6	5	3	2	2	4	2	2	4	3	7	7	71
September	1	5	3	8	4	2	....	1	4	4	3	1	....	3	5	5	3	2	3	3	11	8	2	3	89
October	2	4	5	12	1	7	4	....	3	1	2	3	5	7	9	3	2	1	8	5	5	4	12	7	112
November	2	....	7	15	4	5	3	4	1	3	8	8	9	8	4	10	3	10	7	9	10	9	12	10	161
December	1	....	4	10	10	4	3	3	9	9	7	8	4	2	8	11	11	14	18	32	13	13	10	11	215

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Bronchitis in Providence, Forty Years, 1856–1895—Concluded.

Sex, Parentage, Season; Age; Whole Number and Ratio to Known Causes.

BRONCHITIS.	1856 to 1860.	1861 to 1865.	1866 to 1870.	1871 to 1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	Totals.
AGE:																									
Under 1 year	10	10	10	35	17	14	20	10	21	23	25	19	20	31	28	25	33	33	55	38	40	46	41	44	648
1 and under 2	8	3	3	18	8	5	9	5	4	6	4	7	7	5	10	12	12	17	16	13	9	21	13	18	232
2 " " 5	1	2	4	10	....	3	4	3	4	4	5	5	1	6	8	6	5	9	7	10	9	6	9	16	137
5 " " 10	....	....	....	1	....	....	1	....	1	1	....	2	1	2	1	2	2	1	....	1	1	2	3	1	23
10 " " 15	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	1	1	1	....	2	....	....	....	7
15 " " 20	....	....	....	2	....	....	....	....	....	....	....	....	1	....	1	....	1	1	1	....	2	....	....	2	11
20 " " 30	....	....	1	1	1	1	....	1	1	....	1	1	1	1	2	2	2	3	2	3	9	2	4	1	40
30 " " 40	1	1	2	3	1	1	....	....	....	....	2	3	1	3	2	3	2	3	3	1	6	4	5	1	48
40 " " 50	1	1	6	3	1	4	1	....	1	3	....	2	1	5	1	1	1	1	5	6	6	8	....	3	61
50 " " 60	1	2	4	6	2	1	....	....	3	1	....	4	5	6	4	10	3	8	6	8	12	6	14	5	111
60 " " 70	2	5	14	12	4	3	3	2	5	6	9	3	6	5	5	8	9	11	15	11	19	14	11	6	188
70 " " 80	1	7	9	17	7	11	4	6	11	6	8	8	11	9	13	8	8	10	15	15	17	9	13	18	241
80 " " 90	1	3	3	8	4	1	5	5	3	3	5	2	5	2	4	5	7	7	7	10	14	7	9	6	126
90 and over	....	....	....	1	1	....	....	2	1	....	1	1	2	1	3	1	....	2	....	1	2	....	....	2	21
First quarter	8	12	21	31	11	12	22	15	16	14	19	15	21	29	28	32	35	42	41	30	67	51	43	48	663
Second quarter	9	11	12	28	12	9	12	9	19	18	16	17	13	20	21	18	24	27	49	28	27	35	27	32	491
Third quarter	4	6	7	21	8	7	3	3	8	8	8	6	10	11	12	9	11	13	10	15	26	13	18	15	252
Fourth quarter	5	4	16	37	15	16	10	7	13	13	17	19	18	17	21	24	16	25	33	46	28	26	34	28	488
First four months	12	17	25	46	15	15	27	19	25	20	23	23	28	39	41	39	44	58	58	42	73	67	59	63	883
Second four "	8	7	12	26	12	11	10	7	14	16	17	14	16	18	15	15	23	22	39	21	31	24	27	29	434
Third four "	6	9	19	45	19	18	10	8	17	17	20	20	18	20	26	29	19	27	36	54	39	34	36	31	577

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DECEDENTS FROM BRONCHITIS, 40 YEARS, 1856-1895.

YEARS.	PARENTAGE.				SEX.				Total Deaths.	Ratio per 100,000 of total population.
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.		
1856-60.....	13	9	13	12	16	13	10	7	26	10
1861-65.....	18	11	15	13	12	9	21	14	33	12
1866-70.....	24	13	32	23	22	15	34	20	56	18
1871-75.....	45	20	72	35	51	25	66	29	117	27
1876-80.....	104	43	123	43	100	39	127	46	227	43
1881-85.....	146	58	163	51	145	53	164	55	309	54
1886-90.....	205	79	286	77	232	77	259	79	491	78
1891-95.....	247	89	388	92	298	89	337	93	635	91
40 years..	802	46	1,092	55	876	58	1,018	53	1,894	51

Cancer. The number of deaths from this cause in 1895 was 96, or 18 more than in 1894. Of these 17 were cancer of the stomach; 20 of the uterus, and 15 of the breast. The 44 others, so far as specified, were 7 of the liver, 6 of the bowels, 5 of the face, 2 each of the neck, abdomen, omentum, rectum and lung, and 1 each of knee, vulva, bladder, spleen, ovary, tongue and larynx.

The following table shows the sex, parentage, whole number, and ratio per 100,000 of the population, and percentage of total deaths of the decedents from cancer, by periods of five years, from 1856 to 1890, inclusive:

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DECEDENTS FROM CANCER, 40 YEARS, 1856-1895.

YEARS.	PARENTAGE.				SEX.				Total Deaths.	Ratio per 100,000 of population.	Percentage of Deaths from known Causes.
	American.		Foreign.		Males.		Females.				
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.			
1856-1860.	56	39	25	24	20	17	61	47	81	33	1.70
1861-1865.	80	53	30	26	31	25	79	56	110	42	1.99
1866-1870.	100	58	31	23	36	25	95	58	131	42	2.37
1871-1875.	128	58	78	38	54	27	152	69	206	49	2.46
1876-1880.	161	67	140	49	84	33	217	80	301	57	3.06
1881-1885.	211	84	148	47	92	34	267	90	359	63	3.24
1886-1890.	209	81	190	52	110	37	289	88	399	64	3.15
1891-1895.	222	80	205	48	117	35	310	36	427	60	2.92
40 years.	1,167	68	847	43	544	14	1,470	76	2,014	55	2.77

Full particulars for each year may be found in the report for 1888, page 55.

Childbirth. There were 28 deaths from this cause in 1895, which was 2 less than in 1894; 11 deaths were from puerperal fever, and 4 from puerperal convulsions.

Cholera Infantum. The number of deaths from this cause in 1895 was 148, or 19 more than in the year preceding.

The following table shows the sex, parentage, ratio per 100,000 of population, and percentage of the decedents from cholera infantum for periods of five years, from 1856 to 1895.

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DECEDENTS FROM CHOLERA INFANTUM, 40 YEARS, 1856-1895.

YEARS.	PARENTAGE.				SEX.				Total Deaths.	Ratio per 100,000 of population.	Percentage of Deaths from known Causes.
	American.		Foreign.		Males.		Females.				
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.			
1856-60...	94	65	163	157	138	118	119	91	257	104	5.41
1861-65...	92	61	187	164	139	113	140	99	279	105	5.05
1866-70...	124	71	200	148	175	121	149	91	324	105	5.85
1871-75...	217	99	358	175	278	137	297	134	575	135	6.86
1876-80...	181	75	292	103	243	96	230	84	473	90	4.81
1881-85...	218	87	339	107	294	109	263	88	557	98	5.03
1886-90...	279	108	350	95	324	108	305	93	629	101	4.97
1891-95...	241	87	442	105	365	109	318	88	683	98	4.67
40 years.	1,446	84	2,331	119	1,956	112	1,821	95	3,777	103	5.20

Until the year 1883, statistics of cholera infantum were given by single years, so that by reference to the report of that and succeeding years, the statistics of this disease may be found for each separate year.

Convulsions. There were 48 deaths caused by convulsions in 1895, which was 7 less than in the preceding year.

In addition to the above, convulsions were given as the secondary and immediate cause of death in 65 cases in connection with the following diseases: Teething 9, disease of the kidney 6, enteritis 6, cholera infantum 5, scarlet fever, measles and whooping cough 4 each, meningitis and indigestion 3 each, pneumonia, falls, diarrhœa and influenza 2 each, and spina-bifida, croup, premature birth, tubercular meningitis, malnutrition, capillary bronchitis, gastritis, malaria, injury at birth, apoplexy, rachitis, general paralysis and congestion of the brain, 1 each.

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Deaths from Croup in Providence, Forty Years, 1856–1895.

Sex, Parentage, Season; Whole Number and Ratio to Known Causes.

CROUP.	1856 to 1860	1861 to 1865	1866 to 1870	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	Totals.
Whole number..	123	162	99	35	27	21	29	56	65	40	38	43	29	49	32	35	33	28	32	39	27	33	31	16	34	28	6	25	1,215
Percentage.....	2.59	2.86	1.78	2.82	1.71	1.23	1.48	2.95	3.48	2.07	1.93	2.13	1.41	2.30	1 43	1.51	1.48	1.30	1.36	1.49	1.04	1.33	1.08	0.61	1.15	0.90	0.21	0.81	1.67
SEX:																													
Males.....	63	81	51	18	13	6	19	31	32	18	18	27	8	24	14	17	16	16	15	18	14	17	20	12	20	17	5	12	622
Females.....	60	81	48	17	14	15	10	25	33	22	20	16	21	25	18	18	17	12	17	21	13	16	11	4	14	11	1	13	593
PARENTAGE:																													
American.....	52	63	45	20	6	6	15	19	27	14	18	22	7	17	14	13	13	13	13	14	14	10	12	4	19	6	2	12	490
Foreign.....	71	99	54	15	21	15	14	37	38	26	20	21	22	32	18	22	20	15	19	25	13	23	19	12	15	22	4	13	725
SEASON:																													
January.....	20	21	12	5	3	2	3	10	5	5	4	9	5	7	5	7	7	7	3	3	7	2	3	1	3	1	....	4	164
February.....	11	22	15	6	2	3	1	9	6	1	5	5	....	6	1	2	4	....	2	3	3	6	5	2	5	5	3	3	136
March.....	15	18	9	3	3	3	6	8	2	3	3	8	3	2	4	3	4	2	3	2	5	7	3	3	7	1	....	2	132
April.....	12	17	5	2	2	3	2	....	1	5	6	4	1	2	4	1	2	2	2	1	3	3	3	3	....	1	4	....	2	91
May.....	10	12	6	1	2	1	....	2	....	4	....	2	....	3	1	3	2	3	2	2	....	5	2	....	1	....	....	....	1	65
June.....	6	12	1	....	....	2	....	1	....	1	....	2	....	2	....	2	....	1	1	3	1	....	3	....	1	1	..	2	2	42
July.....	8	4	4	5	....	1	....	....	2	....	1	....	....	2	1	....	3	1	1	1	1	2	1	1	....	1	1	1	1	42
August.....	4	3	1	1	....	....	1	....	....	....	1	....	....	1	....	....	1	....	1	1	....	....	1	1	1	1	....	....	....	19
September....	4	9	6	1	....	1	3	5	9	2	....	....	3	4	....	3	1	1	3	3	2	2	....	....	1	....	....	1	64
October.....	11	14	11	4	2	....	2	3	15	3	2	4	2	6	5	5	4	3	4	4	1	2	5	5	4	8	1	5	135
November.....	10	11	13	7	4	2	6	12	9	8	8	7	11	7	8	5	2	....	7	7	3	2	2	3	6	4	1	4	169
December.....	12	19	16	....	9	3	5	6	16	8	8	2	4	7	3	4	3	8	4	7	1	2	3	....	4	2	....	....	156

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Debility. This was the cause assigned for 76 deaths in 1895, of which 47 were debility from premature birth. Of the 29 others, 19 were less than a year old.

Diarrhœal Diseases. The diseases classed under this head are included in the following table, showing the number, sex, parentage and percentage from each cause in 1895 :

	Males.	Females.	American.	Foreign.	Total.	Per cent.	Ratio per 100,000 of Population.
Acute Diarrhœa	8	14	9	13	22	.72	15.12
Chronic Diarrhœa	—	1	—	1	1	.03	.68
Dysentery	5	8	3	10	13	.43	8.93
Cholera Infantum	80	68	43	105	148	4.84	101.73
Cholera Morbus	2	7	3	6	9	.29	6.18
Enteritis	8	17	6	19	25	.82	17.18
Enteritis, Gastro-	21	39	24	36	60	1.97	41.24
Enteritis, Colo-	13	5	4	14	18	.59	12.37
Totals	137	159	92	204	296	9.69	203.43

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Ratio of deaths from diarrhœal diseases per 100,000 of the population:

Parentage.				Sex.					
American.		Foreign.		Male.		Female.		Total.	
Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
92	159	204	140	137	195	159	210	296	203.47

The following table shows the number of deaths from each diarrhœal disease, and the percentage from all these diseases, in different periods of time, from 1840 to 1895, inclusive:

	Cholera Infantum.	Cholera Morbus.	Diarrhœa.	Dysentery.	Enteritis.	Total.	Ratio to all known causes
1840-1854	560	63	349	796	102	1,870	16.77
1855-1859	250	14	159	127	23	573	12.06
1860-1864	297	17	154	189	46	703	13.27
1865-1869	281	35	125	187	37	665	12.15
1870-1874	532	26	185	91	97	931	12.04
1875-1879	509	24	169	77	104	883	9.13
1880-1884	571	39	220	74	164	1,068	9.73
1885-1889	538	53	175	121	220	1,107	9.07
1890-1894	712	44	199	119	400	1,474	10.21
1895	148	9	23	13	103	296	9.69
56 years	4,398	314	1758	1,794	1,296	9,570	11.06

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Deaths from Diphtheria in Providence, Thirty-Eight Years, 1858–1895.

Sex; Parentage; Season; Whole Number and Ratio to Known Causes.

Diphtheria.	1858 to 1860	1861 to 1865	1866 to 1870	1871 to 1875	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	Totals.
Whole number	47	138	44	105	111	295	246	107	61	116	48	54	58	37	98	109	98	97	94	48	39	46	46	79	2,221
Percentage....	1.66	2.50	0.79	1.25	5.95	15.27	12.47	5.30	2.95	5.45	2.15	2.33	2.60	1.71	4.17	4.18	3.77	3.90	3.29	1.83	1.32	1.47	1.60	2.58	3.05
Sex:																									
Males.....	23	66	21	52	53	146	136	46	32	65	20	20	30	18	46	53	48	44	51	24	20	24	26	45	1,109
Females.....	24	72	23	53	58	149	110	61	29	51	28	34	28	19	52	56	50	53	43	24	19	22	20	34	1,112
Parentage:																									
American....	24	93	17	62	43	129	105	54	35	59	26	27	22	16	48	31	48	42	47	16	12	17	21	27	1,021
Foreign.....	23	45	27	43	68	166	141	53	26	57	22	27	36	21	50	78	50	55	47	32	27	29	25	52	1,200
Season:																									
January....	.....	13	6	12	5	14	41	10	7	7	7	6	3	6	4	11	9	10	17	4	1	2	5	6	206
February....	2	13	5	12	....	13	19	7	6	7	3	3	5	3	7	8	6	7	15	4	5	2	4	1	157
March.....	3	16	1	12	4	20	21	9	4	8	4	4	6	1	5	2	14	10	7	6	4	4	6	2	173
April.....	1	7	4	7	5	18	25	5	6	15	3	....	1	1	8	7	5	5	9	3	3	5	4	2	149
May.....	.....	10	1	4	5	31	11	6	4	11	1	6	4	2	6	10	6	14	7	6	4	3	6	4	162
June.....	2	6	.....	15	3	21	10	10	3	2	2	8	1	....	8	10	4	4	4	4	3	4	7	7	138
July.....	4	5	3	7	2	9	6	5	6	7	5	2	2	4	2	4	8	8	6	3	3	4	.....	4	109
August.....	4	4	1	1	2	12	13	7	5	11	1	3	1	3	8	9	3	5	8	2	1	2	.....	6	112
September..	4	11	4	6	8	39	13	8	5	12	1	8	2	3	14	15	4	9	6	4	2	4	2	9	193
October.....	11	13	6	10	32	48	32	18	5	14	1	8	5	3	15	13	12	8	7	6	4	7	3	10	291
November...	10	21	4	10	31	37	32	13	5	16	7	2	13	3	7	12	9	6	3	5	4	3	5	13	270
December...	6	19	9	9	14	33	23	9	5	6	13	4	15	8	14	8	18	11	5	1	5	6	4	15	280

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The subject of diphtheria has been commented upon in several previous reports; see "City Registrar's Report" for the years 1860, 1870, 1877 to 1880, inclusive, and 1883.

The following table illustrates the subject of season in connection with the three important causes of death, diphtheria, scarlet fever, and croup; showing the number and percentage of deaths in Providence, from each cause, in each month and quarter of the year.

Months.	Diphtheria, 1858-1895. Thirty-eight years.		Scarlet Fever, 1855-1895. Forty-one years.		Croup, 1856-1895. Forty yerrs.	
	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.
January	206	9.27	337	12.10	164	13.50
February	157	7.07	289	10.38	136	11.19
March	173	7.79	252	9.05	132	10.86
1st quarter	536	24.13	878	31.53	432	35.55
April	149	6.73	259	9.30	91	7.49
May	162	7.22	251	9.01	65	5.35
June	138	6.26	206	7.40	42	3.46
2d quarter	449	20.21	716	25.71	198	16.30
July	109	4.90	150	5.39	42	3.46
August	112	5.05	122	4.38	19	1.56
September	193	8.69	143	5.13	64	5.27
3d quarter	414	18.64	415	14.90	125	10.29
October	291	13.11	217	7.80	135	11.11
November	271	12.21	240	8.61	169	13.91
December	260	11.70	319	11.45	156	12.84
4th quarter	822	37.02	776	27.86	460	37.86
Totals	2,221	100.00	2,785	100.00	1,215	100.00

Enteritis. There were 103 deaths from enteritis in 1895, including 18 from colo-enteritis and 60 from gastro-enteritis.

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Fever, Malarial. In 1869, two deaths, and in 1880, one death, were reported as due to malarial fever. These were counted in with typhoid fever, but since 1880 the record of malarial fevers has been kept separate from typhoid. Malarial disease originated in Providence in 1880 for the first time in fifty years.

The following table shows the deaths from all forms of malarial fevers since 1881. The details for single years are given in report for 1894, page 76 :

Years.	Males.	Females.	American.	Foreign.	Whole Number.	Percentage.
1881-1885	18	15	15	18	33	0.29
1886-1890	54	55	30	79	109	0.84
1891	3	5	2	6	8	0.30
1892	5	6	4	7	11	0.37
1893	1	4	2	3	5	0.16
1894	3	3	1	5	6	0.21
1895	8	2	5	5	10	0.33
15 years	92	90	59	123	182	0.47

Fever, Typhoid. The number of deaths from this cause in 1894 was 46, which was 24 less than in 1894.

In the twenty-five years previous to 1881, deaths were occasionally reported from "fever," and bilious fever," and about thirty in all as "typhus fever." There was also, in 1869, one death reported as "intermittent fever," and one "malarial fever," and one from malarial fever in 1880. These were all included with typhoid fever. The one death from typhus fever in 1893 was not included with typhoid.

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Deaths from Typhoid Fever in Providence, Forty Years, 1856–1895.

Sex, Parentage, Season, Age, Whole number and Ratio to Known Causes.

TYPHOID FEVER.	1856 to 1860	1861 to 1865	1866 to 1870	1871 to 1875	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	Totals.
Whole number	141	215	190	313	33	43	47	40	52	38	140	128	52	44	53	39	103	59	39	62	51	50	70	46	2,048
Percentage	2.97	3.89	3.43	3.74	1.78	2.22	2.38	1.98	2.52	1.78	6.27	5.51	2.33	2.04	2.25	1.49	3.95	2.37	1.36	2.37	1.73	1.60	2.44	1.51	2.68
SEX:																									
Males	73	120	100	160	17	20	19	19	24	18	66	72	30	22	30	19	53	41	24	35	25	26	45	29	1,097
Females	68	95	90	153	16	23	28	21	28	20	74	56	22	22	23	20	50	18	15	27	16	24	25	17	951
PARENTAGE:																									
American	85	131	104	166	19	22	27	26	24	17	54	54	17	18	21	16	32	21	15	21	17	15	21	21	964
Foreign	56	84	86	147	14	21	20	14	28	21	86	74	35	26	32	23	71	38	24	41	34	35	49	25	1,084
SEASON:																									
January	13	13	7	19	2	3	2	1	2	3	4	15	5	3	3	6	5	5	4	4	8	3	14	....	144
February	9	10	8	8	3	....	....	2	1	3	2	6	5	4	....	3	....	8	3	2	5	1	7	3	93
March	9	9	11	11	....	3	....	5	3	1	3	11	1	2	5	3	3	2	6	5	2	2	5	1	103
April	4	8	11	8	....	1	2	2	4	6	1	32	1	2	5	....	3	9	5	1	3	1	7	1	117
May	16	10	4	12	1	....	2	7	9	2	6	5	4	4	3	2	6	1	2	2	5	3	6	4	116
June	11	6	7	9	2	1	4	6	4	3	5	3	2	3	....	2	1	2	2	3	2	3	4	3	88
July	6	12	13	9	....	4	4	3	1	3	....	9	1	2	1	1	1	1	1	3	4	11	7	1	98
August	4	20	18	29	4	7	3	2	2	3	4	5	4	4	6	8	5	6	3	6	2	5	3	3	156
September	18	33	27	42	9	8	8	1	8	4	9	16	8	6	8	3	8	4	3	6	3	3	4	4	243
October	17	26	28	63	3	5	8	2	11	2	8	12	11	5	11	7	9	3	2	5	6	6	5	8	263
November	21	45	32	58	7	8	6	2	5	2	70	8	6	8	5	2	15	12	3	16	7	6	6	6	356
December	13	23	24	45	2	3	8	7	2	6	28	6	4	1	6	2	47	6	5	9	4	6	2	12	271
First quarter	31	32	26	38	5	6	2	8	6	7	9	32	11	9	8	12	8	15	13	11	15	6	26	4	340
Second quarter	31	24	22	29	3	2	8	15	17	11	12	40	7	9	8	4	10	12	9	6	10	7	17	8	321
Third quarter	28	65	58	80	13	19	15	6	11	10	13	30	13	12	15	12	14	11	7	15	9	19	14	8	497
Fourth quarter	51	94	84	166	12	16	22	11	18	10	106	26	21	14	22	11	71	21	10	30	17	18	13	26	890

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Deaths from Typhoid Fever in Providence, Forty Years, 1856–1895.—Concluded.

Sex, Parentage, Season, Age, Whole Number and Ratio to Known Causes.

TYPHOID FEVER.	1856 to 1860	1861 to 1865	1866 to 1870	1871 to 1875	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	Totals.
First four months	35	40	37	46	5	7	4	10	10	13	10	64	12	11	13	12	11	24	18	12	18	7	33	5	457
Second four months	37	48	42	59	7	12	13	18	16	11	15	22	11	13	10	13	13	10	8	14	13	22	20	11	458
Third four months	69	127	111	208	21	24	30	12	26	14	115	42	29	20	30	14	79	25	13	36	20	21	17	30	1,133
AGE:																									
Under 1 year	1	1	3	2	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	10
1 and under 2	4	1	....	4	1	....	....	1	....	1	1	2	....	....	1	....	....	....	1	....	....	....	1	....	18
2 " " 5	9	7	10	9	1	2	2	....	....	1	3	4	1	2	....	....	3	1	....	....	1	....	3	....	59
5 " " 10	8	15	17	19	2	3	5	5	3	2	3	8	1	6	4	3	4	3	....	4	1	2	2	1	121
10 " " 15	5	23	10	23	3	5	2	2	3	1	16	13	3	2	5	1	12	3	4	4	4	4	4	5	157
15 " " 20	21	31	30	54	5	5	9	4	9	5	28	23	7	2	9	5	18	10	4	7	8	5	15	....	314
20 " " 30	28	51	54	86	11	13	19	11	20	13	50	43	20	11	13	13	41	20	18	23	13	22	29	21	643
30 " " 40	21	36	22	45	2	3	1	9	7	6	22	19	11	11	7	8	14	13	5	12	6	8	9	8	305
40 " " 50	18	13	16	27	2	5	6	1	2	4	8	4	3	3	4	3	6	4	2	5	8	4	4	6	158
50 " " 60	13	17	10	28	3	4	1	1	4	2	5	8	1	3	6	3	4	1	3	2	6	3	1	3	132
60 " " 70	5	12	7	13	2	3	1	4	3	1	3	3	2	3	3	2	1	2	1	3	3	2	1	1	81
70 " " 80	7	7	10	1	....	....	....	2	....	1	1	....	2	1	1	....	....	2	1	1	1	....	1	1	40
80 " " 90	1	1	1	1	1	....	1	....	....	1	....	....	1	....	....	1	....	....	....	....	....	....	....	....	9
90 and over	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1

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The next table shows the number and percentage of decedents from typhoid fever, in each division of age, in the aggregate mortaliy for the year 1895, and also for the forty years from 1856 to 1895, inclusive:

PERIODS.	Under 1 year.	1 and under 2.	2 and under 5.	5 and under 10.	10 and under 15.	15 and under 20.	20 and under 30.	30 and under 40.	40 and under 50.	50 and under 60.	60 and under 70.	70 and under 80.	80 and under 90.	90 and over.	Total.
1895.															
Number.	....	....	....	1	5	.....	21	8	6	3	1	1	....	....	46
Per cent.	....	....	....	2.17	10.87	.....	45.65	17.39	13.05	6.53	2.17	2.17	....	....	100.00
1856-1895.															
Number.	10	18	59	151	1.27	3.14	6.43	3.05	1.58	1.32	81	40	9	1	2,048
Per cent.	.49	.88	2.88	7.37	6.20	15.33	31.40	14.89	7.71	6.45	3.96	1.95	.44	.05	100.00

The average age of decedents from typhoid fever for forty years was 28 years, 4 months, 2 days. For details see report for 1894, page 80.

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DECEDENTS FROM TYPHOID FEVER, 40 YEARS, 1856-1895.

YEARS.	PARENTAGE.				SEX.				Total Deaths.	Ratio per 100,000 of population.
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.		
1856-60.....	85	59	56	54	73	62	68	52	141	56
1861-65.....	131	87	84	73	120	97	95	67	215	81
1866-70.....	104	59	86	63	100	69	90	54	190	61
1871-75.....	166	75	147	71	160	78	153	68	313	73
1876-80.....	118	48	97	34	99	39	116	42	215	40
1881-85.....	160	63	242	76	208	76	194	65	402	70
1886-90.....	105	40	188	51	167	55	126	38	293	46
1891-95.....	95	34	184	43	170	50	109	30	279	40
40 years..	964	56	1,084	55	1,097	62	951	49	2,048	55

Heart, Diseases of. The number of deaths from diseases of the heart in 1895 was 205, or 18 more than in 1894. So far as specified these deaths were as follows: Valvular, 59; endocarditis, 22; fatty heart, 12; heart failure, 9; dilatation, 6; angina pectoris 5; pericarditis, 4; myocarditis and hypertrophy, 3 each; degeneration and dropsy, 2 each; and sclerotic inflammation, 1.

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DECEDENTS FROM HEART DISEASE, 40 YEARS, 1856–1895.

YEARS.	PARENTAGE.				SEX.				Total Deaths.	Ratio per 100,000 of population.	Percentage of deaths from known causes.
	American.		Foreign.		Males.		Females.				
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.			
1856-60...	104	72	39	37	62	53	81	62	143	57	3.01
1861-65...	169	112	68	59	116	94	121	86	237	89	4.29
1866-70...	164	94	98	72	131	91	131	79	262	84	4.73
1871-75...	277	126	184	89	218	106	243	109	461	108	5.50
1876-80...	271	112	208	73	239	94	240	87	479	91	4.87
1881-85...	377	149	352	111	232	122	397	133	729	128	6.59
1886-90...	456	176	490	133	443	148	503	153	946	151	7.47
1891-95...	454	165	587	140	491	146	550	152	1,041	149	7.12
40 years.	2,272	132	2,026	104	2,032	116	2,266	118	4,298	117	5.91

For particulars for single years, see reports for 1882, page 85; for 1885, page 81; and for 1890, page 79.

Hemorrhage. The number of deaths due to this cause in 1895 was 7, 6 less than in the preceding year. There were 4 from the umbilicus, 1 from the lungs, and 1 following extraction of tooth.

Homicide. There were four deaths from homicide in 1895; by violence to head 2; shooting 1; concussion of brain and smothering 1.

Influenza. The following shows the number and seasonal distribution of deaths from epidemic influenza for the last six years.

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	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Nov.	Dec.	Total.
1890.....	54.....	8.....	1.....	1.....	0.....	0.....	0.....	0.....	0.....	0.....	64
1891.....	1.....	0.....	1.....	5.....	5.....	4.....	0.....	1.....	0.....	18.....	35
1892.....	34.....	11.....	3.....	5.....	2.....	1.....	0.....	0.....	1.....	2.....	59
1893.....	2.....	0.....	0.....	6.....	5.....	0.....	0.....	0.....	0.....	22.....	35
1894.....	57.....	13.....	3.....	1.....	3.....	0.....	1.....	0.....	0.....	0.....	78
1895.....	1.....	6.....	20.....	10.....	1.....	1.....	0.....	0.....	1.....	0.....	40
Total.....	149	38	28	28	16	6	1	1	2	42	311

The age distribution for the six years was as follows:

	Under 1 year.	1	2-5	5-10	10-15	15-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	Total.
1890..	2	2	....	....	4	9	12	5	6	7	11	4	2	64
1891..	7	2	1	....	.....	.....	1	2	1	1	8	6	6	35
1892..	10	1	1	1	2	.....	1	2	2	7	13	9	10	59
1893..	2	1	1	....	1	1	2	.....	2	4	6	7	8	35
1894..	2	2	2	1	1	2	6	3	7	10	19	16	7	78
1895..	9	1	3	....	.....	.....	5	4	.....	4	4	6	4	40
Total	32	9	8	2	8	12	27	16	18	33	61	48	37	311

Insanity. The number of deaths from this cause in 1895 was 34, including 10 specified as general paresis. The other 23 deaths from insanity so far as specified were as follows: Senile dementia, 6; melancholia, 4; dementia 3; acute mania 2; and paranoia, puerperal insanity, paretic dementia, paralytic, post paralytic and circular insanity 1 each.

Of the 34 deaths from insanity 11 were at Butler Hospital and 23 in other parts of the city.

Kidneys, Diseases of. The number of deaths from diseases of the kidneys in 1895 was 163. This was 31 more than in the preceding year. Of these, 74 were due to "Bright's disease;" 72 to nephritis; 6, uræmia; 2, granular kidneys; 2, pyelitis; and one each, cystic, pyelo-nephritis, cirrhotic, waxy, albumenuria, suppression of urine, and with child-birth.

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Liver, Diseases of. There were in 1895, 27 deaths from diseases of the liver, which was 2 less than in 1894. Of these 27 cases there were specified as cirrhosis, 16; congestion and amyloid degeneration, 2 each, and abscess, fatty degeneration and inflammation, 1 each.

Malformations. The number of deaths from this cause in 1895 was 20, or 3 more than 1894. They were so far as specified as follows: Cyanosis, 4; open foramen ovale, 4; of the heart, 2; imperforate anus, 2; imperforate urethra, 2; and spina-bifida, of the intestine, liver, palate, rectum and umbilical hernia, 1 each.

Measles. There were 40 deaths from measles in 1895, or 35 more than in the preceding year.

This disease has always been very irregular in its appearance in this city, as may be seen by the following table, which shows the number of deaths caused by it in each year since 1856:

1856..... 1	1866..... 9	1876..... 0	1886..... 7
1857..... 2	1867..... 0	1877..... 2	1887.....90
1858.....40	1868..... 4	1878.....50	1888..... 2
1859..... 0	1869..... 6	1879..... 0	1889.....14
1860..... 0	1870.....16	1880..... 3	1890.....31
1861..... 6	1871..... 1	1881.....25	1891..... 4
1862..... 1	1872..... 7	1882..... 4	1892.....10
1863.....16	1873.....28	1883..... 8	1893.....63
1864..... 7	1874..... 4	1884..... 7	1894..... 5
1865..... 7	1875..... 0	1885..... 8	1895.....40
40 years.....			530

Meningitis, Cerebro-Spinal. The first deaths reported from this cause in Providence were in 1864; since that date the number of deaths from it each year have been as follows:

1864..... 2	1875..... 5	1886..... 2
1865..... 2	1876..... 4	1887..... 7
1866..... 1	1877..... 7	1888..... 5
1867..... 0	1878..... 7	1889..... 3
1868..... 1	1879..... 7	1890..... 3
1869..... 0	1880..... 4	1891..... 5
1870..... 0	1881.....11	1892..... 9
1871.....12	1882 14	1893..... 8
1872.....10	1883.....15	1894..... 7
1873.....39	1884..... 3	1895..... 7
1874.....10	1885..... 2	
32 years.....		212

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The number of decedents from cerebro-spinal meningitis, in each division of age, and according to sex and parentage, are given in the following table for the 32 years, 1864 to 1895:

Ages.	Under 1 year.	1 and under 2.	2 and under 5.	5 and under 10.	10 and under 15.	15 and under 20.	20 and under 30.	30 and under 40.	40 and under 50.	50 and under 60.	60 and under 70.	70 and under 80.	Males.	Females.	American.	Foreign.	Total.
No.	28	16	35	39	21	23	21	18	12	2	1	1	116	101	107	110	217

Of the 217 decedents, 139, or 64.05 per cent. were less than 15 years old.

Old Age. There were 56 deaths in 1895 ascribed to this cause; 7 less than in 1894; 8 of the decedents were over 90 years of age.

In the 40 years, 1856-1895, the number of decedents of 70 years and over was 8,882, or 12.23 per cent. of all the decedents from known causes; 5,918 of American and 2,964 of foreign parentage.

Paralysis. The number of deaths from this cause in 1895 was 19, which was 5 less than in 1894. Of these 19 cases, 3 were specified as hemiplegia, 1 paralysis agitans, 1 paresis, 1 glosso-pharyngeal.

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The following table shows the number of deaths and ratio per 100,000 of the population by periods of five years from 1856 to 1895 of paralysis and apoplexy and of the two diseases combined:

YEARS.	PARALYSIS.		APOPLEXY.		PARALYSIS AND APOPLEXY.	
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.
1856-1860	31	12	87	33	118	47
1861-1865	58	21	86	32	144	54
1866-1870	90	29	134	43	224	72
1871-1875	127	29	177	42	304	71
1876-1880	132	25	240	47	372	70
1881-1885	157	27	394	68	551	97
1886-1890	137	21	491	79	628	100
1891-1895	121	17	476	68	597	86
40 years	1,033	28	2,746	75	3,779	103

The sex and parentage of the decedents from these two causes combined were as follows:

	Male.	Female.	American Parentage.	Foreign Parentage.
1895	56	94	80	70
40 years 1856-1895	1,439	1,599	1,860	1,178

Phthisis, or Consumption. There were 355 deaths from phthisis in 1895, or 11.63 per cent. of all deaths from known causes; or 244.03 per each 100,000 living.

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During the 15 years, 1840 to 1854, the average annual rate of mortality from phthisis was one death in each 209.9 inhabitants, or 476 to each 100,000. During the forty years, 1856 to 1895, the deaths from phthisis were as follows:

DECEDENTS FROM PHTHISIS, 40 YEARS, 1856–1895.

YEARS.	PARENTAGE.				SEX.				Total Deaths.	Ratio per 100,000 of population.
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.		
1856-1860.....	525	364	405	391	379	324	551	421	930	375
1861-1865.....	495	329	480	420	477	387	498	352	975	368
1866-1870.....	532	306	520	384	490	339	562	342	1,052	340
1871-1875.....	553	252	682	332	568	279	667	301	1,235	290
1876-1880.....	570	235	928	322	676	267	822	301	1,498	285
1881-1885.....	573	227	1,177	371	824	304	926	310	1,750	307
1886-1890.....	529	204	1,206	329	863	288	872	266	1,735	277
1891-1895.....	486	176	1,202	286	846	253	842	233	1,688	243
40 years..... ...	4,263	248	6,600	339	5,123	293	5,740	299	10,863	296

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Deaths from Phthisis in Providence, Forty Years, 1856–1895.

Sex, Parentage, Season, Age, Whole Number and Ratio to Known Causes.

PHTHISIS.	1856 to 1860.	1861 to 1865.	1866 to 1870.	1871 to 1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	Tot'ls
Whole number.....	930	975	1,052	1,235	284	294	305	293	322	344	351	364	344	347	368	314	359	309	385	344	333	325	331	355	10,863
Percentage.....	19.57	17.64	18.70	14.74	15.34	15.22	15.46	14.82	15.60	16.15	15.72	15.68	15.44	16.07	15.66	12.05	13.80	12.41	13.46	13.15	11.29	10.40	11.53	11.63	14.95
SEX:																									
Males.....	379	477	490	568	119	127	135	141	154	157	166	166	159	176	179	141	183	155	205	188	165	162	164	167	5,123
Females..	551	498	562	667	165	167	170	152	168	187	185	198	185	171	189	173	176	154	180	156	168	163	167	188	5,740
PARENTAGE:																									
American.....	525	495	532	553	120	116	107	116	111	116	113	107	113	124	115	98	98	104	114	98	93	100	86	109	4,263
Foreign...	505	480	520	682	164	178	198	177	211	228	238	257	231	223	253	216	261	205	271	246	240	225	245	246	6,600
SEASON:																									
January.....	92	77	93	116	22	21	27	30	28	41	34	30	33	44	38	29	37	36	46	23	34	26	32	40	1,029
February.	77	81	85	110	17	15	21	27	27	22	33	25	26	24	30	29	32	20	27	39	28	27	28	30	880
March.....	91	84	93	101	23	25	24	32	33	27	35	33	22	29	36	29	29	22	41	35	22	41	32	40	979
April.....	68	86	94	117	24	30	19	23	27	35	35	40	38	28	45	30	23	26	27	24	35	32	22	27	955
May...	77	61	78	101	30	32	34	26	19	33	29	40	40	22	32	28	32	24	43	29	26	28	33	32	929
June.....	70	80	98	99	30	21	25	14	18	28	30	26	25	36	37	20	32	26	24	35	29	20	24	25	872
July.....	64	84	78	98	18	31	21	24	28	26	25	28	20	33	29	16	28	26	32	18	25	29	27	26	834
August.....	60	71	89	84	29	19	23	25	25	36	31	25	26	21	34	29	26	26	31	25	32	25	33	30	855
September....	66	84	82	96	18	27	32	20	29	28	19	19	26	30	24	21	35	28	21	28	30	25	25	29	842
October...	83	87	91	101	28	17	18	30	24	24	25	38	23	24	28	30	34	23	37	30	21	23	26	22	887
November.....	94	86	94	109	20	28	29	22	30	19	24	31	29	29	20	20	24	24	26	25	32	23	25	28	891
December.....	88	94	77	103	25	28	32	20	34	25	31	29	36	27	15	33	27	28	30	33	19	26	24	26	910

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Deaths from Phthisis in Providence, Forty Years, 1856-1895.—Concluded.

Sex, Parentage, Season, Age, Whole Number, and Ratio to Known Causes.

PHTHISIS.	1856 to 1860.	1861 to 1865.	1866 to 1870.	1871 to 1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	Tot'ls
First quarter	260	242	271	327	62	61	72	89	88	90	102	88	81	97	104	87	98	78	114	97	84	94	92	110	2,888
Second quarter	215	227	270	317	84	83	78	63	64	96	94	106	103	86	114	78	87	76	94	88	90	80	79	84	2,756
Third quarter	190	239	249	278	65	77	76	69	82	90	75	72	72	84	87	66	89	80	84	71	87	79	85	85	2,531
Fourth quarter	265	267	262	313	73	73	79	72	88	68	80	98	88	80	63	83	85	75	93	88	72	72	75	76	2,688
First four months	328	328	365	444	86	91	91	112	115	125	137	128	119	125	149	117	121	104	141	121	119	126	114	137	3,843
Second four months	271	296	343	382	107	103	103	89	90	123	115	119	111	112	132	93	118	102	130	107	112	102	117	113	3,490
Third four months	331	351	344	409	91	100	111	92	117	96	99	117	114	110	87	104	110	103	114	116	102	97	100	105	3,530
AGE:																									
Under 1 year	13	14	16	11	4	4	1	1	4	4	2	8	7	6	1	4	5	7	7	8	4	4	1	5	141
1 and under 2	12	14	12	13	4	1	4	3	4	4	2	3	3	2	5	1	1	2	5	3	2	1	2	7	110
2 " " 5	9	20	10	11	1	2	1	3	4	2	2	1	3	4	3	2	4	2	3	3	1	3	3	4	101
5 " " 10	8	13	12	9	3	4	4	4	1	2	5	2	1	3	3	4	3	2	2	4	3	3	2	7	104
10 " " 15	20	20	22	21	2	5	9	10	8	7	1	6	8	10	3	10	8	3	7	6	7	5	4	5	207
15 " " 20	90	92	94	102	33	25	31	23	22	31	36	25	29	41	30	35	28	42	29	34	33	29	29	34	997
20 " " 30	264	295	344	387	93	106	97	96	117	125	116	121	114	113	123	95	119	86	118	108	96	99	118	127	3,447
30 " " 40	202	233	204	263	49	49	70	65	65	75	84	78	78	77	90	70	81	75	98	81	85	86	71	82	2,411
40 " " 50	115	153	151	184	36	40	35	34	46	34	43	49	51	38	49	38	55	37	45	50	49	49	54	40	1,475
50 " " 60	98	72	101	117	30	32	25	26	16	33	23	38	21	30	30	25	25	23	43	28	36	29	28	27	956
60 " " 70	62	60	64	85	20	19	16	20	29	16	25	25	17	12	22	19	21	22	17	13	12	10	14	7	627
70 " " 80	31	18	21	29	9	7	12	7	5	9	10	7	10	10	7	7	6	5	7	5	4	6	4	8	244
80 " " 90	6	1	1	3	.....	.....	.....	1	1	2	2	1	2	1	2	4	3	3	4	1	1	1	1	2	43
90 and over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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Pneumonia. There were 281 deaths from pneumonia in 1895, and 7 from congestion of the lungs; total, 288, which was 19 more than in the preceding year. These deaths were as follows in the different seasons of the year:

	Number.	Per cent.		Number.	Per cent.
First quarter	121	42.01	Third quarter	29	10.07
Second quarter	58	20.14	Fourth quarter	80	27.78

The following table gives the statistics concerning the decedents from pneumonia and congestion of the lungs, in the five years, 1856-1860; the five years, 1861-1865; the five years, 1866-1870; and in each year since 1870. See the report for 1883, pages 89 to 93 inclusive, for fuller particulars and comments:

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Pneumonia and Congestion of the Lungs in Providence, Forty Years, 1856–1895.

Sex, Parentage, Seasons, Age, Whole Number, and Ratio to Known Causes.

Pneumonia and Congestion of the Lungs.	1856 to 1860.	1861 to 1865.	1866 to 1870.	1871 to 1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	Totals.
Whole number	341	355	407	653	163	98	140	159	193	174	176	204	172	227	210	224	221	204	244	251	315	389	269	288	6,077
Percentage	7.18	6.42	7.24	7.79	8.80	5.07	7.10	7.88	9.36	8.17	7.88	8.79	7.72	10.51	8.93	8.60	8.48	8.19	8.53	9.59	10.68	12.45	9.37	9.43	8.37
Sex:																									
Males	192	190	214	334	79	44	63	76	94	85	98	109	78	113	103	123	115	100	130	124	160	199	153	151	3,127
Females	149	165	193	319	84	54	77	83	99	89	78	95	94	114	107	101	106	104	114	127	155	190	116	137	2,950
Parentage:																									
American	184	193	205	334	61	47	70	73	86	88	66	89	86	124	93	88	90	77	88	101	103	142	111	92	2,691
Foreign	157	162	202	319	102	51	70	86	107	86	110	115	86	103	117	136	131	127	156	150	212	247	158	196	3,386
Season:																									
January	45	40	59	79	15	15	21	38	17	27	17	29	17	24	24	30	39	29	54	34	88	45	65	24	875
February	36	46	46	98	16	13	17	18	19	28	18	17	29	24	23	32	30	30	23	26	35	46	37	40	747
March	41	50	51	76	14	11	18	18	26	15	21	28	16	40	34	40	43	38	31	16	35	53	32	57	804
April	35	35	62	77	19	10	16	18	31	24	28	34	29	38	21	28	33	24	23	27	31	54	36	34	767
May	38	32	36	68	19	8	7	11	24	13	19	23	20	32	25	18	13	17	19	19	29	55	18	19	582
June	24	23	14	29	5	4	7	7	19	11	14	18	8	12	6	10	9	9	13	8	11	17	4	5	287
July	7	16	18	22	6	3	6	1	4	2	6	5	5	1	8	6	4	6	10	8	4	16	10	8	182
August	14	6	11	17	7	1	6	4	8	6	1	2	....	7	5	2	4	6	5	6	6	6	6	11	147
September	13	12	17	29	9	6	5	6	2	2	9	8	2	8	7	10	5	5	7	4	7	12	13	10	208
October	19	16	19	34	14	10	7	8	16	15	4	10	10	9	21	12	13	8	15	12	19	18	9	20	338
November	37	40	28	52	19	7	13	9	11	15	19	10	18	13	17	15	11	9	13	20	28	15	17	21	457
December	32	39	46	72	20	10	17	21	16	16	20	20	18	19	19	21	17	23	31	71	22	52	22	39	683

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Pneumonia and Congestion of the Lungs in Providence, Forty Years, 1856-1895.—Concluded.

Sex, Parentage, Season, Age, Whole Number and Ratio to Known Causes.

Pneumonia and Congestion of the Lungs.	1856 to 1860	1861 to 1865	1866 to 1870	1871 to 1875	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	Totals.
Age:																									
Under 1 year	85	88	87	174	43	21	33	33	32	26	18	25	40	30	27	29	17	29	36	29	43	51	41	46	1,063
1 and under 2	54	31	40	54	13	12	14	16	15	20	10	16	13	15	9	17	11	9	11	12	15	24	21	17	469
2 " 5	31	29	39	43	14	10	13	12	9	13	9	5	11	17	12	18	14	11	15	12	13	22	15	13	400
5 " 10	13	10	15	14	....	2	2	7	8	1	2	6	4	4	7	3	5	4	3	4	2	11	7	4	138
10 " 15	5	4	6	11	3	....	1	....	2	2	3	....	1	3	2	2	....	....	2	3	1	3	2	3	59
15 " 20	5	2	4	14	1	3	4	2	6	1	7	5	3	5	5	3	5	6	6	4	3	4	3	7	108
20 " 30	20	28	27	36	12	6	4	6	5	7	11	14	14	11	18	11	19	10	21	17	21	21	22	26	387
30 " 40	28	27	23	51	7	7	7	9	14	14	26	21	15	19	22	26	32	19	26	24	38	41	29	32	557
40 " 50	26	31	33	55	19	10	12	17	22	14	27	34	9	31	26	23	34	24	27	28	39	51	27	41	650
50 " 60	26	32	41	54	14	9	8	20	26	28	20	30	9	25	24	26	28	31	29	35	35	66	36	34	686
60 " 70	24	31	46	68	23	6	18	15	26	23	17	28	18	30	26	31	27	35	35	40	60	52	28	34	741
70 " 80	19	29	30	60	14	7	20	17	23	15	22	21	22	24	23	24	18	17	21	31	33	26	27	21	564
80 " 90	5	11	15	17	....	4	4	5	4	9	3	9	11	11	8	9	11	8	12	11	11	17	10	10	215
90 and over	....	2	1	2	....	1	....	....	1	1	1	....	2	2	1	2	....	1	....	1	1	....	1	....	20
First quarter	122	136	156	253	45	39	56	74	62	70	56	74	62	88	81	102	112	97	108	76	158	144	134	121	2,426
Second quarter	97	90	112	174	43	22	30	36	74	48	61	75	57	82	52	56	55	50	55	54	71	126	58	58	1,636
Third quarter	34	34	46	68	22	10	17	11	14	10	16	15	7	16	20	18	13	17	22	18	17	34	29	29	537
Fourth Quarter	88	95	93	158	53	27	37	38	43	46	43	40	46	41	57	48	41	40	59	103	69	85	48	80	1,478
First four months	157	171	218	330	64	49	72	92	93	94	84	108	91	126	102	130	145	121	131	103	189	196	170	155	3,193
Second four months	83	77	75	136	37	16	26	23	55	32	40	48	33	52	44	36	30	38	47	41	50	94	38	43	1,198
Third four months	101	107	110	187	62	33	42	44	45	48	52	48	48	49	64	58	46	45	66	107	76	97	61	90	1,686

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PNEUMONIA AND CONGESTION OF THE LUNGS, 40 YEARS, 1856–1895.

YEARS.	PARENTAGE.				SEX.				Total Deaths.	Ratio per 100,000 of population.
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.		
1856-1860...	184	127	157	151	192	164	149	114	341	137
1861-1865...	193	128	162	141	190	154	165	116	355	134
1866-1870...	205	118	202	149	214	148	193	117	407	131
1871-1875...	334	152	319	155	334	164	319	144	653	153
1876-1880...	337	139	416	146	356	140	397	145	753	143
1881-1885...	453	180	500	157	483	178	470	157	953	167
1886-1890...	436	168	667	181	571	191	532	162	1,103	176
1891-1895...	549	199	963	229	787	235	725	201	1,512	217
40 years..	3,148	183	4,153	213	3,763	215	3,538	184	7,301	199

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Deaths from Scarlet Fever in Providence, Forty-One Years, 1855–1895.

Sex, Parentage, Season, Whole Number and Ratio to Known Causes.

SCARLET FEVER.	1855.	1856 to 1860	1861 to 1865	1866 to 1870	1871 to 1875	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	Totals.
Whole number	42	310	324	236	533	35	12	57	252	243	45	18	16	57	38	30	153	80	25	8	17	37	97	56	64	2,785
Percentage....	4.37	6.52	5.86	4.26	6.36	1.87	0.62	2.89	12.49	11.77	2.11	0.81	0.69	2.56	1.76	1.28	5.78	3.08	1.01	0.28	0.65	1.26	3.10	1.95	2.09	3.83
SEX:																										
Males.....	22	153	154	106	263	16	4	25	135	122	27	12	7	23	13	11	66	41	12	4	8	22	47	25	30	1,348
Females.....	20	157	170	130	270	19	8	32	117	121	18	6	9	34	25	19	87	39	13	4	9	15	50	31	34	1,437
PARENTAGE:																										
American....	19	172	132	90	205	14	3	17	101	88	17	7	6	27	12	9	57	37	5	2	7	14	40	22	24	1,127
Foreign.....	23	138	192	146	328	21	9	40	151	155	28	11	10	30	26	21	96	43	20	6	10	23	57	34	40	1,658
SEASON:																										
January	.....	48	27	51	59	4	3	2	13	50	5	2	2	3	5	4	8	18	4	....	1	4	8	8	8	337
February....	.....	39	31	28	66	6	....	2	12	36	8	3	....	....	8	3	3	19	....	1	....	5	6	6	7	289
March.....	1	44	29	26	42	6	....	2	9	29	4	1	....	1	8	....	4	9	3	1	5	6	6	4	12	252
April.....	5	46	25	17	46	....	2	1	9	32	7	1	2	2	4	1	1	13	8	1	2	1	9	8	16	259
May.....	4	38	36	13	49	4	1	2	10	29	8	3	2	6	....	1	2	8	3	2	....	4	12	8	6	251
June.....	2	25	34	12	58	5	....	5	4	15	4	2	....	4	1	2	5	4	2	....	1	3	14	.....	4	206
July	1	18	25	7	29	....	....	11	5	13	4	....	....	2	2	2	8	1	4	....	1	1	12	2	2	150
August	2	7	12	16	23	....	....	5	10	12	1	2	....	2	1	4	10	1	....	....	....	2	6	2	4	122
September ..	.....	8	11	15	32	1	....	2	19	7	....	....	....	5	2	1	17	1	....	....	1	.....	14	7	.....	143
October.....	2	9	15	12	32	7	....	15	36	8	1	....	2	11	3	3	47	2	1	....	2	.....	2	5	2	217
November ...	13	9	38	12	40	1	4	2	54	7	2	1	4	11	1	4	22	3	....	2	....	4	1	3	2	240
December...	12	19	41	27	57	1	2	8	71	5	1	3	4	10	3	5	26	1	....	1	4	7	7	3	1	319

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Septicalmia. There were 8 deaths from this cause in 1895, which so far as specified were dependent upon the following: hydatid mole, injury to wrist, operation for lacerated cervix, abscess of scrotum, rectal fistula, wound of foot and circumcision.

Small Pox. The following table gives the deaths from Small Pox for 40 years, 1856-1895.

	Sex.		Parentage.		Whole	
Year.	Males.	Females.	American.	Foreign.	Number.	Percentage.
1856	7	2	5	4	9	0.87
1857						
1858						
1859	2	3	5		5	0.57
1860	4	1	3	2	5	0.52
1861						
1862	2	2	1	3	4	0.45
1863						
1864	7		3	4	7	0.56
1865	9	2	8	3	11	0.93
1866						
1867	1		1		1	0.11
1868	1		1		1	0.09
1869	3		3		3	0.24
1870		2		2	2	0.16
1871		3	1	2	3	0.24
1872	9	4	9	4	13	0.82
1873	12	2	8	6	14	0.82
1874						
1875	1			1	1	0.05
1876						
1877						
1878						
1879						
1880						
1881						
1882						
1883	1		1		1	0.04
1884						
1885						
1886						
1887						
1888						
1889						
1890						
1891						
1892	2	1		3	3	0.10
1893						
1894	2		1	1	2	0.07
1895						
40 years	63	22	50	35	85	

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Spinal Cord, Diseases of. There were 11 deaths in 1895, specified as follows: Myelitis, 5; meningitis, 3; and 1 each polyomyelitis, paralysis and tabes dorsalis.

Stomach, Diseases of. The number of deaths from diseases of the stomach in 1895 was 33, of which 13 were due to gastritis and 5 to ulcer.

Suicide. There were 11 deaths by suicide in 1895, or 3 less than in 1894. Death was caused as follows: By pistol shot, 3; by cutting throat, 2; and by morphine, illuminating gas, chloroform, paris green, drowning, and hanging, 1 each.

Surgical Operations. There was one death due to surgical operation in 1895 for inguinal hernia.

Syphilis. The following table gives the deaths from syphilis and the number of these in which the disease was specified as congenital for each year from 1856 to 1895:

	Total	Congenital.		Total	Congenital.		Total	Congenital.		Total	Congenital.
1856	2	0	1866	4	3	1876	7	3	1886	7	4
1857	0	0	1867	4	4	1877	8	3	1887	5	2
1858	3	3	1868	3	3	1878	1	1	1888	5	4
1859	3	3	1869	0	0	1879	7	7	1889	8	6
1860	0	0	1870	5	4	1880	5	2	1890	6	4
1861	1	1	1871	3	2	1881	3	1	1891	5	3
1862	2	1	1872	7	2	1882	9	7	1892	8	5
1863	0	0	1873	3	2	1883	10	7	1893	8	3
1864	2	2	1874	3	2	1884	6	4	1894	5	3
1865	2	0	1875	8	4	1885	4	2	1895	5	2
Totals 40 years										172	107

Teething was given as the cause of 11 deaths in 1895, or 7 more than in 1894. "Teething" includes only those cases in which no other or contributing cause is given.

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Tetanus. There were 5 deaths from this disease in 1895, so far as specified these were dependent upon fracture of arm and puncture of foot, and 1 was tetanus neonatorum.

Tuberculosis was the cause of 46 deaths in 1895, or 6 more than in 1894. The name "tuberculosis" was first used in these reports in 1867, and the number of deaths from this cause in the 29 years from 1867 to 1895 is 596.

If under tuberculosis should also be included tubercular meningitis, phthisis and hydrocephalus, it is probable that some few cases of non-tuberculous disease might be included, but as a certain number of cases of true tuberculosis are undoubtedly reported as adenitis, disease of bone, peritonitis, etc., it is probable that this total would be below rather than above the actual number of deaths from tubercular disease. The total of these tubercular diseases for 1895 was 435, or 14.24 per cent. of deaths from known causes.

Tumors. The number of deaths from tumors in 1895 was 20, the same as in 1894. There were 7 ovarian, 3 uterine, 2 of the liver, and 1 each of the parotid and sub-maxillary glands, bladder, abdomen, brain, pelvic bones, orbit and multiple sarcoma of the skin.

Whooping Cough. Whooping cough caused 27 deaths in 1895. The deaths in previous years since 1856 are shown in the following table:

1856.....10	1866..... 8	1876.....35	1886.....23
1857..... 2	1867..... 2	1877.....16	1887.....12
1858..... 7	1868.....13	1878.....43	1888.....28
1859.....22	1869.....16	1879.....15	1889.....44
1860.....19	1870 24	1880.....11	1890.....30
1861.....25	1871.....10	1881.....40	1891.....53
1862..... 3	1872.....10	1882.....40	1892..... 8
1863..... 6	1873.....18	1883..... 4	1893.....11
1864.....10	1874.....33	1884.....28	1894... 53
1865.....31	1875..... 8	1885.....24	1895..... ...27
40 years.....			822

Unknown. There were 34 deaths in 1895 for which no cause could be given. This was 1.10 per cent. of the 3,087 deaths for the year, 1895.

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STILL-BORN.

There were 199 still-born children in Providence in 1895; this was 8 more than in 1894, and was 4.80 per cent. of the 4,144 children born in 1895 or one in 20.8.

Sex. Males, 124; females, 75.

Color. White, 185; colored, 14.

Locality. First ward, 22; second, 18; third 34; fourth, 8; fifth, 18; sixth, 20; seventh, 16; eighth, 14; ninth, 21; tenth, 28.

Season. January, 17; February, 15; March, 12, April, 15; May, 15; June, 17; July, 16; August, 27; September, 18; October, 14; November, 15; December, 18.

The number and proportion in each quarter were:

	Number.	Per cent.		Number.	Per cent
First quarter	44	22.11	Third quarter	61	30.65
Second quarter	47	23.62	Fourth quarter	47	23.62

Parentage. The following table shows the parentage of the 199 still-born children in 1895; the first letter representing the birthplace of the father, the second that of the mother.

A.—American; I.—Irish; E.—English; S.—Scotch: G.—German; B. A.—British American; F. C.—French Canadian; P.—Portugese; Sw.—Swedish; It.—Italian; R. Russian; Pol.—Polish; Dan.—Danish; Aus.—Austrian; Arm.—Armenian; F.—French; W.—Welsh.

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A. and A.....83	Arm. and Arm..... 1	A. and G..... 1
I. and I..... 37	I. and A..... 1	I. and E..... 4
E. and E..... ..11	E. and A..... 1	I. and S 1
S. and S..... 1	S. and A..... 2	E. and S..... 1
F. C. and F. C..... 2	B. A. and A..... 1	A. and W..... 1
P. and P..... 4	A. and I..... 7	A. and B. A..... 5
It. and It..... 5	E. and I..... 2	A. and Sw..... 1
Sw. and Sw..... 2	B. A. and I..... 2	E. and Sw..... 1
R. and R..... 9	Sw. and I..... 1	G. and R..... 1
Pol. and Pol..... 2	F. and I..... 1	
Aus. and Aus..... 1	A. and E..... 7	Total..... ...199

The number and proportion of children borne by mothers of different nativities in 1895 were as follows:

	Number of children.	Per cent
American mothers	1,702	41.07
Irish mothers	846	20.41
Other foreign mothers	1,594	38.47
Unknown	2	.05
Total	4,144	100.00

The next table shows the same facts concerning the 199 still-born children in 1895:

	Still-born children.	Per cent.
American mothers	88	44.22
Irish mothers	50	25.13
Other foreign mothers	61	30.65
Total	199	100.00

The proportion of still-born children to the whole number of children borne by mothers of each class in 1895 is shown by the following table:

	Whole number of children	Still-born children.	Percentage of still-born.	Or 1 in
American mothers	1,702	88	5.17	19.3
Irish mothers	846	50	5.91	16.9
Other foreign mothers	1,594	61	3.83	26.1
Unknown	2			
Totals	4,144	199	4.80	20.8

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In the 40 years, 1856 to 1895, the whole number of children born was 99,396, of still-born 5,510, or 5.54 per cent., or 1 in 18.1. Of the 5,510 still-born children 5,187 were white and 323 colored; 3,175, or 57.62 per cent. were males and 2,334, or 42.38 per cent. were females.

The following statement shows the whole number of children borne by mothers of different nativities during the 40 years, 1856-1895, inclusive; also the number of still-born children to mothers of each class, and the percentage of the latter to the whole number of children:

	Whole number of children.	Still-born children.	Percentage of still-born.	Or 1 in
American mothers	46,383	2,451	5.28	18.9
Irish mothers	30,798	2,026	6.57	15.2
English, Scotch or Welsh mothers	9,142	498	5.45	18.4
German mothers	2,114	73	3.45	28.9
British-American mothers*	5,034	209	4.15	24.1
Other foreign mothers	5,898	244	4.14	24.2
Unknown	27	9	33.33	3.0
Total	99,396	5,510	5.54	18.1

Reckoned by the fathers' birth-places, 2,476, or 44.94 per cent. of the 5,510 still-born children were American; 1,922, or 34.88 per cent. were Irish and 1,095, or 19.87 per cent. were children of other foreign fathers; of 17, or 0.31 per cent. the parentage was not stated.

* Including French-Canadian.

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GENERAL SUMMARY.

The following recapitulatory table gives the general results of registration in Providence during the forty-one years, 1855 to 1895, inclusive:

TABLE XXII. BIRTHS, MARRIAGES AND DEATHS.

YEAR.	Population.	Births.	Of population one birth to	Births in each 1,000.	Marriages.	Of population one person married in	Persons married in each 1,000.	Deaths.	Of population one death in	Deaths in each 1,000.
1855	‡47,785	1,000	29.86	33.49	636	37.56	26.62	991	48.22	20.74
1856	48,727	1,675	29.09	34.38	656	37.14	26.93	1,065	45.75	21.86
1857	49,457	1,688	29.30	34.13	614	40.27	24.83	925	53.46	18.70
1858	49,457	1,724	28.68	34.87	560	44.15	22.65	1,017	48.63	20.56
1859	50,100	1,593	31.45	31.80	616	40.66	24.59	899	55.72	17.94
1860	*50,666	1,648	30.74	32.53	633	40.02	24.99	1,001	50.61	19.76
1861	50,666	1,725	29.37	34.05	547	46.31	21.59	1,051	48.21	20.74
1862	52,238	1,529	34.16	29.27	547	47.75	20.94	914	57.15	17.50
1863	53,024	1,307	40.56	24.65	610	43.46	23.01	1,214	43.67	22.90
1864	53,810	1,344	40.04	24.97	739	36.40	27.47	1,281	42.01	23.81
1865	†54,595	1,298	42.06	23.78	709	38.50	25.97	1,211	45.08	22.18
1866	55,709	1,632	34.13	29.29	812	34.30	29.15	1,036	53.77	18.60
1867	56,824	1,624	34.99	28.58	855	33.23	30.09	960	59.19	16.89

* U. S. Census. † State Census. ‡ City Census.

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GENERAL SUMMARY.—CONTINUED.

YEAR.	Population.	Births.	Of population one birth to	Births in each 1,000.	Marriages.	Of population one person married in	Persons married in each 1,000.	Deaths.	Of population one death in	Deaths in each 1,000.
1868	64,138	1,866	34.37	29.09	872	36.77	27.20	1,110	57.78	17.31
1869	66,522	1,819	36.57	27.34	930	35.76	27.96	1,256	52.96	18.88
1870	*68,904	1,889	36.48	27.41	959	35.93	27.83	1,263	54.55	18.33
1871	72,011	1,960	36.74	27.22	943	38.13	26.23	1,254	57.42	17.41
1872	75,118	2,206	34.05	29.37	1,084	34.63	28.88	1,603	46.86	21.34
1873	78,225	2,128	36.76	27.20	1,150	34.01	29.40	1,719	45.51	21.98
1874	‡96,452	2,780	34.69	28.83	1,176	41.01	24.38	1,987	48.54	20.60
1875	†100,675	2,664	37.79	26.46	1,079	46.65	21.44	1,915	52.57	19.02
1876	101,511	2,631	38.58	25.92	949	53.48	18.70	1,865	54.43	18.37
1877	101,000	2,543	39.72	25.18	953	52.99	18.87	1,938	52.12	19.19
1878	‡102,286	2,627	38.94	25.68	1,016	50.34	19.86	1,989	51.43	19.44
1879	103,572	2,522	41.07	24.35	1,071	48.35	20.68	2,026	51.12	19.56
1880	*104,857	2,627	39.92	25.05	1,234	42.49	23.53	2,080	50.41	19.84
1881	109,617	2,803	39.10	25.58	1,202	45.60	21.93	2,145	51.10	19.56

* U. S. Census. † State Census. ‡ City Census.

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GENERAL SUMMARY.—Concluded.

Year.	Population.	Births.	Of population one birth to	Births in each 1,000.	Marriages.	Of population one person married in	Persons married in each 1,000.	Deaths.	Of population one death in	Deaths in each 1,000.
1882	114,377	2,788	41.02	24.38	1,172	48.80	20.49	2,242	51.01	19.60
1883	‡117,018	2,916	40.13	24.92	1,177	49.71	20.12	2,328	50.27	19.89
1884	117,544	2,956	39.76	25.15	1,144	51.37	19.47	2,233	52.64	19.00
1885	†118,070	2,936	40.21	24.87	1,091	54.11	18.48	2,164	54.56	18.33
1886	120,000	2,960	40.54	24.67	1,249	48.04	20.82	2 355	50.96	19.62
1887	121,500	2,963	41.01	24.38	1,336	45.47	21.99	2,612	46.52	21.50
1888	123,000	3,131	39.28	25.46	1,349	45.59	21.93	2,608	47.16	21.20
1889	127,000	3,171	40.05	24.97	1,367	46.45	21.53	2,510	50.60	19.76
1890	*132,146	3,417	38.67	25.86	1,430	46.20	21.64	2,877	45.93	21.77
1891	135,000	3,951	34.17	29.27	1,488	45.36	22.04	2,630	51.33	19.48
1892	138,000	4,006	34.45	29.03	1,592	43.34	23.72	2,964	46.56	21.48
1893	¶150,000	4,210	35.63	28.07	1,606	46.70	21.41	3,139	47.79	20.93
1894	153,000	4,118	37.15	26.92	1,499	51.03	19.59	2,896	50.32	19.87
1895	145,472	4,145	35.09	28.49	1,563	46.53	21.48	3,087	47.12	21.22
41 years' average	90,977	2,496	37.19	26.89	1,031	44.12	22.67	1,814	50.15	19.94

* U. S. Census. † Sate Census. ‡ City Census. ¶ City Census in January, 148,944.

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BIRTHS AND DEATHS BY PARENTAGE.

The following recapitulatory table shows the number of births and deaths by parentage, in Providence, in each of the 40 years, from 1856 to 1895, inclusive. In the three years, 1863, 1864, and 1865, there was an excess of deaths over the births, in the population of American parentage:

TABLE XXIII.

YEAR.	AMERICAN PARENTAGE.			FOREIGN PARENTAGE.		
	Deaths.	Births.	Excess of Births.	Deaths.	Births.	Excess of Births.
1856	541	759	218	524	916	392
1857	523	701	178	402	987	585
1858	512	771	259	505	953	448
1859	479	659	180	420	934	514
1860	512	731	219	489	917	428
1861	538	740	202	513	985	472
1862	460	663	203	454	866	412
1863	597	528	—69	617	779	162
1864	649	579	—70	632	765	133
1865	631	546	—85	580	752	172
1866	513	726	213	523	906	383
1867	528	725	197	432	899	467
1868	596	882	286	514	984	470
1869	627	926	299	629	893	264
1870	642	890	248	621	999	378
1871	643	980	337	611	980	369
1872	832	1,035	203	771	1,171	400
1873	862	1,003	141	857	1,125	268
1874	885	1,217	332	1,102	1,563	461
1875	914	1,180	266	1,001	1,484	483
1876	875	1,169	294	990	1,462	472
1877	908	1,238	330	1,030	1,305	275
1878	889	1,215	326	1,100	1,412	312

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BIRTHS AND DEATHS BY PARENTAGE.

TABLE XXIII.—CONCLUDED.

YEAR.	AMERICAN PARENTAGE.			FOREIGN PARENTAGE.		
	Deaths.	Births.	Excess of Births.	Deaths.	Births.	Excess of Births.
1879	941	1,228	287	1,085	1,294	209
1880	920	1,252	332	1,160	1,375	215
1881	999	1,365	366	1,146	1,438	292
1882	965	1,370	405	1,277	1,418	141
1883	1,047	1,457	410	1,281	1,459	178
1884	992	1,452	460	1,241	1,504	263
1885	1,012	1,447	435	1,152	1,489	337
1886	1,029	1,469	440	1,326	1,491	165
1887	1,062	1,391	309	1,530	1,572	42
1888	1,101	1,544	443	1,507	1,587	80
1889	1,073	1,441	368	1,437	1,730	293
1890	1,195	1,513	318	1,682	1,904	222
1891	1,083	1,698	615	1,547	2,178	631
1892	1,179	1,601	422	1,783	2,251	468
1893	1,242	1,629	387	1,885	2,421	536
1894	1,156	1,613	457	1,740	2,385	645
1895	1,223	1,672	449	1,864	2,358	494
Forty years	33,395	45,005	11,610	39,960	53,891	13,931

Respectfully submitted,

CHARLES V. CHAPIN,

City Registrar.

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MAJORITY AND MINORITY REPORTS

OF THE

JOINT SPECIAL COMMITTEE

UPON

TRANSFER TICKETS

TOGETHER WITH A

Resolution to apply to the General Assembly for the establishment of a system of Transfer Tickets by the Union Railroad Company.

[Presented April 6, 1896.]

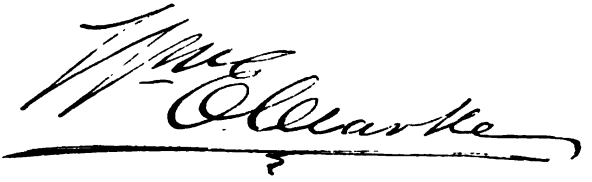


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1896.

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IN CITY COUNCIL, April 8, 1896.

Read, whereupon it is ordered that the same be received and printed.



City Clerk.

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Report of a Majority of the Joint Special Committee on Transfer Tickets.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF PROVIDENCE:

The majority of the Joint Special Committee appointed to confer with the Union Railroad Company in the matter of transfer tickets respectfully report:

The committee, immediately upon organization, communicated to the officers of the Union Railroad Company a copy of the resolution under which they were appointed, with a request that the company, through its representatives, meet the committee and endeavor to arrive at some understanding.

On March 7th the president, a director and the attorney of the Union Railroad Company met with the committee, and a general discussion was had as to the nature of the transfer system desired; at which the representatives of the company were informed in effect that in the opinion of the committee a system should be established which permitted a person who paid a cash fare upon any of the company's cars to continue his ride upon any intersecting line to any point within the city limits.

At the meeting of March 14th the company, through its president, submitted a written statement as to their position. By this statement, as also by an additional written statement submitted on April 4th, they said in effect,

1ST. That it had been the policy of the company in the past, instead of granting transfers, to extend their lines across the city and to run new lines so as to practically connect all sections of the city with each other, and they still believed this to be the wisest policy.

2ND. That the question of transfers is one difficult to deal with, not only on account of the great expense and loss entailed, but by reason of the opportunity it afforded for

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frauds. The company estimated that the diminution in receipts caused by transfers, even if the element of fraud were entirely eliminated, would amount to $250,000 per year on the basis of their present earnings, and also that the transfer station which it deemed it necessary to erect, as hereinafter stated, would cost $75,000, and for its maintenance from $25,000 to $30,000 per annum. The additional car mileage which would be required to provide for transfers, which would extend only to the city limits, would also, in their opinion, entail great expense on the company, the amount of which could hardly be estimated.

3RD. That the only way in which a system of general transfers such as was suggested by the Committee could be put in operation would be by the construction of a transfer station upon Weybosset Bridge at Market Square. The company produced sketch plans of such a station, which showed a two-story building, with a high roof, placed upon the present southerly street line of Market Square, and in dimensions ninety (90) feet from east to west, and sixty-seven (67) feet from north to south. Two (2) tracks were to be laid through this station, on one of which were to be run all cars coming from the east, and on the other all cars coming from the west. This was to be the only transfer point. A passenger entering the station on a car coming from the east, on which he had paid his fare, would leave that car at the station and get into any other car going west on the same level, upon the same track. If, however, he desired to leave the station in the easterly direction to pursue his journey either northerly or southerly, it would be necessary for him to ascend a flight of stairs to the second story of the building, cross over above the cars, and descend on the other side and take his car from the other platform. To the suggestion of the Committee that the company consider the feasibility of erecting this station on Exchange place or elsewhere than on Market Square, the representatives of the company paid no attention.

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4TH. The company insisted that as they now had what they termed an explicit contract by the terms of which they were required to furnish the citizens of Providence with the same "or equivalent service to that furnished in 1892," at the fixed rate of fare, being five cents, and as they were now called upon without any change of fare to substantially double the service furnished in 1892 the city should in fairness and equity give the company something approximately adequate as compensation to the expenses and losses to be incurred. They stated that they were unwilling to appear to dictate what this compensation should be, and insisted that the offer of compensation should come from the Committee. In this connection they stated that the owners of the road had expended within three (3) years for its purchase and improvement between nine and ten millions of dollars; this sum was afterwards more definitely fixed at $9,200,000. The suggestion was made to the representatives of the company, by the Chairman of the Committee, that they consider a proposition whereby the city should be allowed to obtain the system of transfers and also to share in the earnings of the company in consideration of an extension of the company's franchise. The general method of profit sharing suggested was as follows: That the United Traction and Electric Company should be allowed to take from its net earnings, annually, the interest upon its 8,000,000 of bonds at 5 per cent., being $400,000, and 4 per cent. on its 8,000,000 of stock, amounting to $320,000, and that the amount of the net earnings over and above the sum required for these payments should be divided equally between the city and the company. This suggestion was subsequently endorsed by one other member of the Committee. At a subsequent meeting, the President of the company stated that it was absolutely impossible for them to consider any division of profits in accordance with the plan suggested, for the reason that the United Traction and Electric Company was chartered to acquire securities of street railway com-

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panies and electric light companies in a dozen different states; that while they now owned only the securities of five (5) corporations located in the State of Rhode Island it was proposed to acquire such securities in other and distant states, and that, therefore, it would be manifestly impossible for them to divide profits with a single city. That the company did not ask any extension of franchise, and did not desire to consider the proposition. He also stated that aside from the reasons which made it impossible for the United Traction and Electric Company to divide earnings upon the basis of dividends upon its capital stock, there would be likewise many and insuperable objections to such a division upon the basis of the bonds and stock of the Union Railroad Company. He reiterated his statement that the company was willing to give the system of transfers proposed by the company if the city would make to it a satisfactory proposition of payment, and gave his opinion that this proposition should be in the way of a release of the company from its obligations to the city to care for the streets and a discharge of its obligation to pay the special tax of 3 per cent. and other taxes upon its property, or that the city should in some way guarantee the company against loss by reason of the institution of a transfer system. Upon the production of a form of transfer ticket devised by the City Engineer, which in his opinion would minimize the chances for fraud, the representatives of the company still insisted that no system of transfer by ticket was feasible.

At the final interview on April 4th, the representatives of the company did not present any material change in these proposals, and they then declined negotiations on any other terms. At this meeting, the company's suggestion, that they might consider some plan other than a station, was not followed by the suggestion of any other plan which they considered possible, but on the contrary they positively refused to say how any such plan could be devised.

With reference to these several claims, representations and demands of the company we have to say:

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1ST. That in our opinion it is impossible to practically connect all sections of the city with each other in accordance with what the company announces to be its intention without a system of transfers. It is perfectly evident that cars coming over one route, say to Market Square, can not be run over all routes going from Market Square in an opposite direction unless either the number of cars are greatly increased, or the cars to different points are run at very infrequent intervals. For instance: if cars coming down College Hill are to be run to Pawtucket avenue, Branch avenue, Chalkstone avenue, Mount Pleasant, Broadway, Olneyville, Cranston street, Elmwood avenue, Broad street, Prairie avenue and Eddy street, there must be a very great increase in the number of cars on College street or else the cars from College street to each of these points must be run at very infrequent intervals, so that a passenger from the East side to Olneyville, who could formerly ride once in five minutes, would not expect to find a car oftener certainly than once in half an hour, or once in an hour, and at the same time there is no reason why for the same fare a passenger should not be carried from the top of College Hill over any of these routes. This can be accomplished and the difficulties overcome only by transfers, and all efforts to accomplish it in accordance with the past policy of the company must be futile. This has been shown on College Hill, where the attempt to only partially carry out this policy has resulted in a congestion, which makes it impossible to ride even half a mile without vexatious delays.

2ND. We believe that the company vastly over-estimated the loss which would accrue to it by the use of transfer tickets, and that any diminution in its receipts due to the fact that a passenger who now pays two fares could ride to his destination for one would be largely, if not entirely, offset by the greater number of persons who would ride if they could go to their desired stopping place for one fare. If, indeed, the company insists that it must erect an expensive building as an element of its transfer scheme, and provide for its care at

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a large annual cost, this expense must be borne, but this expense is due solely to the company's insistence that it cannot adopt the system which is universally in operation elsewhere and must have this new cumbersome and expensive method for Providence. The element of fraud is one which a corporation dealing with a vast number of people and employing a great force of servants necessarily has to contend with, but the company has failed to convince us that the danger of loss from this source is materially increased by the adoption of a system of transfer tickets. Legislation making it a penal offence for any person to use a transfer ticket not issued to him in exchange for a cash fare would greatly lessen this risk.

3RD. We believe that the system of transfers offered by the company would not be acceptable to the great majority of our citizens. In the first place, it makes it possible to transfer at but a single point, on Weybosset Bridge. This is indeed the point where transfers would be most used, but there are other points where both in the interest of the public and of the company itself, in our opinion, transfers should be afforded. It will not be at all convenient for passengers coming from Olneyville and desiring to go to Roger Williams Park to be carried from the junction of Broad and Weybosset streets to Market Square and directly back again, nor for passengers coming from Branch avenue and desiring to go to the Pawtucket line, on Pawtucket avenue, to ride from the North Burial Ground to Market Square and directly back again, nor would it seem to be for the company's interests so to carry them. A single transfer point at Market Square is therefore in our opinion entirely inadequate. But there is another objection to the company's plan even more important than this. It involves the placing of a building 90x67 feet and two stories high on Market Square, filling up one of the city's most important open spaces, and obstructing the flow of air up the river, which sanitarians deem to be of the very greatest importance to the health and comfort of the city. It should be our object to remove all obstructions now over

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the river and to carefully avoid the erection of any permanent buildings there. Not only would this be an obstruction, but it would involve a large expense to the city. It would require, in the first instance, the construction by the city of a new bridge, and a bridge constructed to bear the weight of such a building would cost fifty per cent. more than one to be used only for the ordinary travel. In the opinion of the City Engineer it would take not less than two years to erect the bridge and station.

4TH. Even the establishment of this inadequate system of transfers is made subject to conditions with which the city, in our opinion, ought not to comply. The company's representatives have steadfastly refused to state to the committee what they would demand in return for this system of transfers, but as already stated they have made it evident that they contemplate in effect a release from all their obligations to keep the streets in repair and relief from all money payments which they now make to the city, and they state as their opinion that in lieu of this the city should guarantee them against loss by reason of the inauguration of the system. These extraordinary demands are based upon the claim that an immense sum has been paid for the company's plant and that they now have a binding contract with the city by the terms of which they are compelled to furnish only services which shall be equivalent to that furnished in 1892. As above stated, the cost of this plant is placed at $9,200,000. The company would not for a moment contend that it would cost that sum to replace their present plant. It would not be disputed that their entire plant, within the city limits, could be duplicated for very much less than $4,000,000. In this sum of $9,200,000 they include the $5,000,000 which they paid for the stock of the Union Railroad Company, and the entire cost of their new electric plant and equipments within and without the city, including the entire rebuilding of the tramway line. It is well for the City Council to remember that practically this entire $5,000,000 paid for the stock of the Union Railroad Company was paid for the

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franchises enjoyed by that company. Without such franchise $1,000,000 for all tangible property belonging to the Union Railroad Company at the time of the purchase of its stock by the United Traction & Electric Company would have been an extravagant price. It is manifestly unjust, therefore, that the city upon whose highways this franchise extends should have its receipts diminished or its burdens increased by reason of the fact that the present owners of this property have paid a large price to the original grantees in order to secure the franchises. We are also of the opinion that the claim of the company that they have an explicit contract with the city which makes it impossible for any more burdensome conditions to be imposed upon them without their consent is without foundation.

The exact nature and ground of this claim the company do not state to us. It can, however, be supported but by two considerations. The company might, and undoubtedly does, claim that the provisions of their amended charter contained in the act entitled "An Act concerning the Union Railroad Company," passed by the General Assembly, May 3, 1892, by virtue of which it was authorized to issue bonds to the amount of $3,000,000, secured by a mortgage upon its property and franchises, and by which the terms upon which it should exercise its privileges were fixed, constituted a valid contract between the state and the company, the terms of which could not be changed by any subsequent action of the General Assembly. We believe this claim to be untenable by reason of the fact that at the time of the passage of this Act, as indeed at the time of the first Act incorporating any of the companies which were afterwards merged into the Union Railroad Company, there was upon the statute book of our state a law that any Act of incorporation by the General Assembly might be amended at the pleasure of the General Assembly. So far as this claim is concerned, therefore, we believe that it is entirely within the power of the General Assembly to amend this Act in such manner as to require the company to issue transfer tickets.

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Again, the company would undoubtedly claim that the assent of the city to the provisions of an Act of the General Assembly passed May 23, 1893, being an amendment of the previous Act of 1892, which assent was authorized by resolution of the City Council, constitutes a contract between the city of the one part and the Union Railroad Company and the Providence Cable Tramway Company of the other part, which under the Constitution of the United States cannot be changed or affected by any subsequent Act of the Legislature. We believe that legally this claim also has no foundation, and that this assent if it be interpreted as a contract at all applies only to the relations of the city to the Providence Cable Tramway Company. It is true, indeed, that certain resolutions of the City Council, and certain acts of the General Assembly worded either bunglingly or with a design to commit these bodies to the theory that there was a contract between the city and the companies in which a contract between the city and the companies has been referred to have been passed and this fact undoubtedly renders it more difficult for the representatives of the city now to claim that there is no contract, but it cannot be for a moment pretended that they change in any way the actual relations between the city and the companies; and it is therefore our opinion while under the law as it now exists the city has no power to change the present arrangements without the company's consent nevertheless the Legislature still possess the full power to modify the conditions of the company's franchises and to grant to the city additional rights in the premises.

5TH. One other point would seem to demand our attention. It has been proposed by some members of the committee that if a satisfactory arrangement could be made with the companies whereby the city would receive an equitable share of the proceeds of their business upon condition of extending the franchises for a long period, even for the term of fifty (50) years, it would be wise for the city to make a contract to that effect. We have said that it was proposed that the city was to get by this arrangement an *equitable*

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share of the profits of the company, and we are willing to put it upon this ground, although we believe that the plan proposed of allowing the company to pay interest and dividends upon the capital inflated to at least three times the value of the plant, is by no means equitable, and even then we believe that no such proposition as this should be entertained by the city. The present franchise expires in 1912, only sixteen years distant. No human foresight can look forward and say what the conditions governing transportation within the limits of this municipality will be at that date. Ten years ago the street railway companies were operating under a system in which their operating expenses amounted to 80 per cent. of their gross receipts. The operating expenses to-day, although charged with large expenditures for what might properly be regarded as construction, are acknowledged to be less than 60 per cent. of the gross receipts. Under the usual system of accounting they will probably not exceed 50 per cent. New inventions are being constantly made whereby in the near future they may be still further reduced. This is one consideration.

Again, the physical features of electric transportation are constantly being improved. The city of Chicago is about to construct upwards of twenty miles of electric traction by an under-ground system. This city now has the right to compel the adoption of any better and more convenient system whenever it can be shown to be commercially practicable. If a contract were to be made between the city and the company by which the city had a share of the profits, the company would certainly wish to retain the right to judge for themselves as to the time when changes of this character should be made.

Again, in any contract between a municipality and a railroad company the advantage is always on the side of the company. It has a board of directors and managers few in number, all of whose time and energy is devoted to its interest, while the city must work through the cumbersome body constituting its city council, in the membership of which there

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are constant changes and the members of which at any one time can not be expected to be fully informed upon the subject. The company keeps the books, it makes its accounts of profits to suit itself, and any contract of this character is one in which the city must necessarily be at a disadvantage.

Another, and the most important consideration, is that this city, as all other cities, ought at the earliest possible moment to be in a position where it will be able to judge and to act upon its judgment as to whether or not it is best for the city to own and lease or to own and operate its own street railway plant. The power to do this has been of the very greatest advantage to many foreign cities, and political economists who have given the most attention to municipal affairs express the belief that through municipal ownership of facilities for furnishing not only transportation, but water, light, heat and other necessaries to the inhabitants of the municipality, the city will be enabled to secure a large part of its revenue from sources other than taxation. We do not mean to advocate the present municipal ownership of all of these agencies, but we do mean to state as strongly as possible that, in our judgment, a due consideration of the interests of the city forbids us to postpone the day when the city may acquire them if then deemed best.

For this reason we believe that no contract of any character should be made between the city and these companies, whatever present advantages it may seem to promise, and that the privilege of transfer tickets, however desirable, would be purchased by our citizens at too high a cost were any such contract to be entered into.

In conclusion, therefore, we report that in our opinion,

1ST. No satisfactory system of transfers can be obtained from the Union Railroad Company upon any terms.

2ND. Even a satisfactory system of transfers ought not to be obtained upon the terms suggested by the company; and

3RD. The Legislature has power to secure for our citizens the transfer privilege, and should be asked to exercise it.

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We therefore recommend that the City Solicitor, together with a committee of the City Council, be instructed to apply to the General Assembly at its present session for such legislation by amendment of the charter of the Union Railroad Company as will require the company to issue to each person paying a cash fare upon any of its lines of street railway within the city limits a transfer ticket which will enable him without delay to continue his journey over any of its intersecting lines to any other point within the city limits not in the same general direction from whence he came; and we herewith submit a Resolution to that effect. We believe that this committee should be instructed to enter into no negotiation with the company before the Legislature, and to consent to no compromise legislation. We make this recommendation because we believe that most of the evils from which the city now suffers, have arisen from the fact that committees to secure legislation have been appointed and that such committees being unable to procure what was asked for, have assented, or been represented as assenting, to legislation of a different character which has generally been not in the interest of the city but of the companies. The city should now take the position that it wishes this legislation or nothing, basing it upon the ground that it is just and equitable in view of the rights enjoyed by the company in the highways of the city, and that it is possible to give it on account of the great improvement in methods of transportation which enable the company to transact its business at less expense. It may be, and very probably is, the fact, that the present Legislature will hesitate to grant what we ask, and it may be more than a year, or perhaps two years, before it can be obtained, but we confidently believe that if the city takes this position and insists upon it the force of public opinion will be sufficient to procure it within a reasonable time.

For the Committee, RATHBONE GARDNER,
LUKE KAVANAGH,
ROBERT W. BURBANK,
DENNIS F. McCARTHY.

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MINORITY REPORT.

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Report of a Minority of the Joint Special Committee on Transfer Tickets.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF PROVIDENCE:

The undersigned, a member of the Joint Special Committee, appointed by Resolution No. 86, to confer with the Union Railroad Company *in re.* transfer tickets, approved February 27, 1896, respectfully reports:

That, by the terms of said resolution, said committee were appointed to confer with the Union Railroad Company in reference to the establishment of a proper system of transfer tickets on all street railways within the city limits; also to ascertain whether said Union Railroad Company would consent to a system of transfer tickets without terms, and if not, upon what terms. Said committee was authorized to negotiate with the Union Railroad Company to the end that satisfactory arrangements might be made in reference to said transfers, and, in case of failure to come to any satisfactory arrangement in reference to transfers, to report to the City Council what rights the city has in the premises and what action should be taken to protect them, and whether the city could compel the said Union Railroad Company, directly or indirectly, to grant transfers.

It seems to me that it would be more satisfactory to the City Council to have a report in reference to each of the directions given to said committtee, in reference to the action of the railroad company and the action of the committee thereon. As to the matter of detail, in relation to the transactions between the committee and the company, reference may be had to the record of the proceedings of the committee on file in the clerk's office.

The first meeting was held on February 29th, and the so-called contract existing between the city and the Union Railroad Company was discussed by the committee, the opinion

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of the majority of the committee being that, under the act of 1893, there was no contract, as this act applied only to the streets occupied by the Providence Cable Tramway Company. Immediately after the adjournment of this meeting, a copy of the resolution appointing the committee was forwarded to the Union Railroad Company, accompanied with an invitation to meet the committee on March 7th, and also to state if it was willing to establish a proper system of transfer tickets within the city limits without terms, and if not, upon what terms.

The representatives of the railroad company met the committee on March 7th, and, in response to the question whether the Union Railroad Company would establish a proper system of transfer tickets without terms, President Aldrich replied that the company could not and would not give a general system of transfers at intersecting points without terms, because of the great loss that the company would suffer in receipts, and also by the alleged frauds of conductors, and stated emphatically that under no circumstances would the company grant transfers without terms. The president of the company said that the company was willing and would establish a system of transfer tickets with terms, and that the only system of transfers that the company would grant included, as a condition, the erection of a station on Market Square, according to the plans submitted by their architect at that meeting. This system contemplated a station on Market Square through which all transfer cars must pass, and the system of transfers would be general, allowing a party to ride in any part of the city. In return for that system, the company unofficially offered to accept a remission of the special tax of three per cent. and the waiving by the city of the obligation of the company to pave the streets as it now does and carting the snow therefrom. While there was much discussion between the committee and the representatives of the Union Railroad Company, it may fairly be said that, as a result, the company offered one plan of transfers which in no wise could be modified, and which necessitated, as hitherto

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stated, a station on Market Square. Officially, however, the company declined to state what compensation would be demanded by it, with this exception, that it declined an extension of its franchise as a consideration for transfers, stating emphatically that it did not want an extension of its franchise and did not make the extension of the franchise an indispensable condition of transfers, although the company asserted that its present owners had expended nearly $10,000,000 for the property. The company further claimed that a contract existed between the city and the company, and that if they were to be asked to give a system of free transfers they must be compensated therefor. It was urged by the committee, with persistence, that that system of transfer tickets would not be satisfactory to the City Council or to the people of the City of Providence, and that a system that did not provide for a junctional transfer, and which did provide for the erection of a building on Market Square, could not be and would not be recommended by the committee. The chairman then submitted a proposition to the railroad company as follows :— although this proposition was not the proposition of the committee and the committee afterwards declined to present it as its offer to the railroad company, viz : After the payment of the operating expenses of the road, to pay the interest on the bonds of the road, to wit, on $8,000,000 bonds at five per cent., give the city free junctional transfer tickets without the transfer station on the bridge, deduct four per cent. dividend on the $8,000,000 of stock, divide the profits with the city and allow the present relations in reference to highways, removing snow and the payment of the three per cent. special tax, to remain as at present. The company emphatically refused to accept that proposition for and on behalf of the United Traction Company, but did say that they were willing to consider it as applied to the Union Railroad Company.

At the final meeting held April 4th, the company insisted again that this transfer station must be regarded as an indispensable part of their system of transfer tickets, and the

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committee declined emphatically to further consider it. The committee, through its chairman, notified the Union Railroad Company's representatives that for a junctional system of transfer tickets without the transfer station the committee were willing to consider a proposition to indemnify the company therefor. That proposition was rejected by the Union Railroad Company.

To sum up, after the various meetings and conferences, and an interchange of thought and a consideration of the various plans proposed by the committee, the Union Railroad Company and others interested, the Union Railroad Company and the committee failed completely to come to any agreement. The majority of the committee are of the opinion that the Legislature has the power to amend the charter of the Union Railroad Company so as to compel the Union Railroad Company without consideration to issue transfer tickets. On that proposition the undersigned respectfully wishes to enter his dissent and submits the following brief upon that question:

It is claimed under an act of the General Assembly entitled, "An act concerning the Union Railroad Company," passed May 3, 1892, and under an act entitled "An act requiring the Providence Cable Tramway Company and the Union Railroad Company to make additional payments for the use of certain streets in the City of Providence, and in addition to and in amendment of "An act concerning the Union Railroad Company, passed at the January session, A. D. 1892," which was passed May 23, 1893, that a contract was made between the State and said corporations between said corporations and the City of Providence, and between the Union Railroad Company and the holders of the bonds authorized to be issued by said Union Railroad Company under said first mentioned act, and that said contracts are protected by the Constitution of the United States.

It is settled by the highest authority that the Legislature of a State, in the absence of constitutional restrictions, has the power to grant franchises, which when accepted by the grantees become contracts within the protection of the Constitution of the United States.

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2 Morawetz, sec. 1051.

Dartmouth College vs. Woodward, 4 Wheat. 518.

There is no constitutional restriction in Rhode Island. "The term 'contract' is used in the Constitution in its broadest sense. It applies to all contractual obligations, whether they be called contracts in technical phraseology or not."

2 Morawetz, sec. 1049.

The State has the power to grant franchises and also exclusive franchises, and when accepted by a corporation they are irrevocable contracts.

4 Thompson, sec. 5398. The Binghamton Bridge, 3 Wall, 51, 78, 82, New Orleans Gas Company vs. Louisiana Light Company, 115, U. S. 650.

This was a case where a gas company incorporated in 1835 with the exclusive privilege of making and selling gas in New Orleans and vicinity up to April 1, 1875, and another gas company was incorporated in 1870, with the same exclusive right for 50 years from April 1, 1875. In 1875 the two corporations were consolidated. The constitution of Louisana of 1879 provided that the monopoly features in the charter of any corporation existing excepting railroad companies, were abolished.

It was argued in the case that the supplying of a city with illuminating gas was a business of a public character which had relation to the public comfort, and in some sense to the public health and public safety, and was an exercise of the police power and that it was not within the power of one Legislature to restrict the powers of a subsequent Legislature in respect to those subjects.

The Supreme Court of the United States, however, held that the exclusive franchise was protected by the Constitution of the United States, and another corporation was enjoined from manufacturing and selling gas in New Orleans.

Under the authority of this case, however, it would be competent to require a street railway company to attach fenders to their cars for the public safety.

New Orleans Water Works Company vs. Rivers, 115. U. S. 674.

The New Orleans Water Works Company was granted the exclusive privilege for fifty years, from 1877, of supplying the city

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of New Orleans with water from the Mississippi or any other stream or river by mains or conduits, for which purpose it was authorized to lay pipes in the streets.

It was authorized to issue $2,000,000 of bonds secured by a mortgage of its property, and franchise. The act gave the company the right to fix the rate of charges for water, but subject to the condition that the net profits should not exceed ten per cent. per annum. The company was required during the continuance of its charter to supply water for the purposes mentioned, and to extend their pipes to accommodate the wants of the inhabitants. The defendant claimed the right to supply his premises with water from the Mississippi river by pipes laid in the streets under authority of an ordinance of the city council pursuant to the Constitution and laws of the State.

The court held that the right to use the streets of the city for the purposes mentioned was " a franchise belonging to the State, which she could grant to such persons or corporation and upon such terms as she deemed best for the public interests. And as the object to be attained was a public one, for which the state could make provision by legislative enactment, the grant of the franchise could be accompanied with such exclusive privileges to the grantee, in respect of the subject of the grant, as in the judgment of the legislative department would best promote the public health and the public comfort, or the protection of public and private property.

" Such was the nature of the plaintiff's grant, which not being at the time prohibited by the Constitution of the State, was a contract, the obligation of which cannot be impaired by subsequent legislation, or by a change in her organic law. It is as much a contract within the meaning of the Constitution of the United States, as a grant to a private corporation for a valuable consideration, or in consideration of public services to be rendered by it, of the exclusive right to construct and maintain a railroad within certain lines and between given points, or a bridge over a navigable stream within a prescribed distance above and below a designated point."

The court held that the plaintiff was entitled to an injunction against the defendant.

It is noticeable that the act concerning the Union Railroad Company, although its subject matter is different from the grant to

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the water works company, is similar in its scope and provisions, so far as any questions of law are concerned. There is the same authority to issue bonds and mortgage its franchise. It is required to perform a public service and extend its service when the public good requires, under penalty in case of failure of forfeiting its exclusive rights. It is authorized to fix the rate of fares not to exceed the rate charged at the time of the passage of the act, and is required to pay to the city of Providence a share of its gross earnings, "in full payment for the rights and privileges in and to the streets and highways of said city hereinbefore granted."

In the later act relating to the Providence Cable Tramway Company and the Union Railway Company of May 23, 1893, the Union Railroad Company is required, in consideration of the grants of exclusive rights to the Tramway Company, in certain streets, contained in the act, to render an account of its earnings and pay a special tax upon the gross earnings of the latter company to the city. The payments were to begin when the provisions of the act were mutually accepted in writing by the city and the railroad companies. Such acceptance was made and delivered by the city and the companies.

It is evident from the foregoing if the water works act constituted a contract within the protection of the constitution, that the acts in relation to the Union Railroad Company and Cable Tramway Company constituted such contracts.

The further question is whether said acts or contracts can be repealed, altered or amended by virtue of the general provision of law respecting corporations in general in force at the time of the passage of said acts, to the effect that "All acts of incorporation hereafter granted shall be subject to the provisions of this chapter and may be amended or repealed at the will of the General Assembly, unless express provision be made therein to the contrary."

This question is dependent upon the construction of said acts of the Legislature as manifested in the same. Did the Legislature intend to grant said exclusive franchises subject to said general provision of the law, or do said acts manifest a particular intention inconsistent with said general reservation? If the latter, said acts being passed subsequent in time to the passage of said general law, the last expression of the legislative will would be

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controlling, and said acts would take effect as contracts, and could not be repealed, altered or amended. This question has been substantially decided by the United States Supreme Court, whose decision overrules any State decision, in the similar case of Louisiana Gas Co. vs. Citizens Gas Light Co., 115 U. S. 683.

The Legislature of Kentucky in 1867 granted an exclusive gas franchise in the streets of Louisville to the plaintiff corporation for the term of twenty years. In 1869, with the consent of the corporation, an act in amendment regulating the franchise was passed. In 1872 a gas franchise for the term of fifty years in the streets of said city was granted to another corporation. These acts were passed subsequent to a general law which had been passed in 1856, reserving the power to amend or repeal charters. Section 1 of said last mentioned act provided "That all charters and grants of or to corporations or amendments thereof, and all other statutes, shall be subject to amendment or repeal at the will of the Legislature, unless a contrary intent be therein plainly expressed." The United States Court overruled the decision of the State Court, and held from the terms of the franchise of the Louisville Gas Company and the obligations undertaken by it, that a contract was established and that said contract was not subject to the general law, as a contrary intent was manifest in the said terms of said act. According to the argument in this case, the provision of the Cable Tramway Company Act, which required a ratification by the city and the Union Railroad Company and Tramway Company of the Tramway Company act (which reaffirmed the exclusive franchise of the Union Railroad Company and conferred an exclusive franchise upon the Tramway Company) as a consideration of and prior to the payments to be made to the city under said Tramway Company act, is inconsistent with any other purpose than to withdraw their charter and franchise powers from the operation of the general reservation of power to repeal or amend the charter powers of corporations.

The Legislature therefore must have intended to have waived, in reference to said companies, said reserved power.

Compelling the companies to give transfer tickets would impair the right conferred upon the companies to charge fares not exceeding five cents, the rate at the time of the passage of the acts in question. If the Legislature can alter the distance a pas-

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senger is to be carried, it is in effect altering the rate of fare to be charged by the companies. If it can regulate and diminish the fare, where does the power to diminish the fare stop? If it can diminish the fare by one cent, what prevents a diminunition of the fare to one cent? At the same time the companies are required to continue their payments to the city, their power to make them is impaired in part. The consideration of their agreements to make the payments, namely their right to regulate the fares, is directly attacked and impaired. The State would repudiate its contract in part, and at the same time hold the companies to said payments, and to the performance of their other agreements under the same contracts. The Legislature in said acts manifestly expressed no such intention, but expressly intended and enacted express provisions to the contrary.

Furthermore the United States Supreme Court in the case of the State of New Jersey, the Morris and Essex Railroad Company, prosecutors, vs. James S. Yard, commissioner of railroad taxation of the State of New Jersey, 5 Otto, 104, decided that a statute of a State, which declares that all charters of corporations, granted after its passage, may be altered, amended, or repealed, by the Legislature, does not necessarily apply to supplements to a charter already passed, though the supplement be subsequent to the statute.

This was a case where an act passed in 1865, subsequent to the charter of the company, which act was accepted by the company, a tax of one-half of 1 per cent. was provided to be paid by the company to the State in lieu of all other taxation by or under authority of the State. An act passed in 1873, imposed a more burdensome tax on all railroad companies.

It was claimed that while the act of 1865 constituted a contract, yet it was subject to the reserved power of the Legislature to alter and amend the contract. The court said: "The case before us differs from those in which by the constitution of some of the States this right to alter, amend and repeal all laws creating corporate privileges becomes an inalienable legislative power." "The right asserted in this case to amend or repeal legislative grants to corporations being itself but the expression of the will or purpose of the Legislature, for one particular session or term of the State of New Jersey, cannot bind any succeeding Legislature which may choose to make a grant or a contract not subject

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to be altered or repealed." "It follows that, unlike the Constitutional provision in other States it is in New Jersey a question in every case of a contract made by the Legislature, whether that body intended that the right to change or repeal it should inhere in it, or whether, like other contracts, it was perfect, and not within the powers of the Legislature to impair its obligation." The principle is not established "that a reservation in a charter to a private corporation, of the right to repeal or amend it shall extend to every subsequent amendment of the charter. It is not easy to see why such a provision should be extended beyond the terms in which it is expressed; and all the force which properly belongs to it is given when the exemption from the Constitutional provision against impairing the obligation of contracts is extended as far as the language of the exemption justifies; and it should be extended no further by implication." "It has become the established law of this court that a legislative enactment, in the ordinary form of a statute, may contain certain provisions which, when accepted as the basis of action by individuals or corporations, become contracts between them and the State within the protection of the clause referred to, of the Federal constitution." The Legislature was not willing to rest this contract in the usual statutory form alone, depending for its validity as a contract upon some action of the corporation under it to bind it to its terms; but they required of a company a formal written acceptance within sixty days, or else it became wholly inoperative. "Can it be believed that it was intended by either party to this contract that, after it was signed by both parties, one was to be bound forever, and the other only for a day? That there was implied in it, when it was offered to the acceptance of the company, the right on the part of the Legislature to alter or amend it at its pleasure? If the State intended to reserve this right, what necessity for asking the company to accept in such a formal manner the terms of a contract which the State could at any time make to suit itself?" Without quoting the language of the opinion further, the court held that the exemption was a contract, and that the power to revoke it did not exist by fair construction.

The inquiry is equally pertinent in the matter in question, why did the Legislature make the payments to the city to be conditional upon an acceptance in writing of the terms of the acts by both the city and the companies, and the same to be in full pay-

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ment for the rights and privileges of the companies in the streets of the city?

Furthermore, the Rhode Island statute reserves the power to amend or repeal "all acts of incorporation." It does not state that their power extends to supplements or amendments of charters, or to the extension of corporate powers, and therefore the opinion, in the case of the State of New Jersey vs. Yard, that the meaning of such acts are not to be extended by implication, applies in construing the Rhode Island statute.

In Sloan, appellant vs. Pacific Railroad Company, 61, Mo. 24, the Supreme Court of Missouri held, where the charter of a railroad conferred upon the company the power to regulate its tolls for a certain length of time, that an act passed by the Legislature during that time to regulate the same tolls was unconstitutional.

The court says: "It is not contended in this case that a Legislature may not part with its right of taxation, one of the most important attributes of sovereignty. The contrary has been asserted by the Supreme Court of the United States and its decisions have been acquiesced in. The right to regulate the tolls on a road is a matter of inferior importance to the State, and if the right of taxation may be abandoned, it is difficult to perceive why the right of regulation of tolls may not be transferred to the corporation."

In Commonwealth vs. Essex Company, 13 Gray, 239, the Supreme Court of Massachusetts held that the reserved power of the Legislature to alter or repeal acts of incorporation had its limits, and announced its rule to be "That where, under power in a charter, rights have been acquired and became invested, no amendment or alteration of the charter can take away the property or rights which have become vested under a legitimate exercise of the powers granted."

In Miller vs. R. R. Co., 21 Barb. 513, the Legislature under the reserved power of alteration required the company, which had been previously incorporated, to construct a highway across their road. The work was expensive and of no benefit to the company. The act imposing the burden was held to be void by the Supreme Court of New York.

By the authority of the foregoing cases, it appears that a contract has been established between the State and the railroad companies, and that it is not subject to alteration or repeal under

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the statute reserving power to amend or repeal acts of incorporation.

Therefore the rights of the city and the railroad companies, under said acts, cannot be altered, and the rights of the bond holders of said companies cannot be impaired.

It seems to me, as a result of my examination of the law, that there is a contract subsisting between the City of Providence and the Union Railroad Company in reference to the subject matter of the Acts of 1892 and 1893; that if there is a contract, there is no power in the Legislature in any way or in any degree to modify, repeal or alter it; that if there is no contract existing between the City of Providence and the Union Railroad Company, the fact that the franchise was granted under the Acts of 1892 and 1893, according to the decisions, notably of the Supreme Court of the United States, constitutes a contract with the state which can neither be modified, amended nor altered; and that we are going to the General Assembly to ask them to permit us to live up to the agreement that we had entered into, but to compel the other party to do more than the other party agreed to do; and therefore it seems as though the General Assembly would meet any request on the part of the city with at least indifference.

But, in addition to that, the experience of the City Council with the Legislature raises no hopes that the city will fare better now than it has before; and it is barely possible that if we do go to the Legislature and ask for an amendment of the charter of the Union Railroad Company, we may get more than we ask; and while there is no doubt that we shall get transfers, the cost of getting them to the City of Providence may be simply enormous. Nor should it be forgotten that the streets of the City of Providence are not owned by the city, but absolutely by the Legislature, and that the Legislature may in its wisdom, if the opportunity presents itself, make a contract with the Union Railroad Company and derive great benefit therefrom, by the payment to the state by the company of a large sum of money each year.

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In answer to the question what rights the city has in the premises, the answer is "No rights;" and as to whether said city can compel said Union Railroad Company, either directly or indirectly, to grant transfers, the answer is, "No."

Now it seems as though this question should be settled upon a broad business-like basis. The mere getting of transfers is but a partial solution of the difficulty; for the next demand may be a reduction of fares, and again the city may be troubled for a number of years and agitated as to that question. The only proper solution which appears to me is the business proposition of entering into a copartnership with the Union Railroad Company. It may be argued that the stock of the United Traction Company is watered, that individuals hold large blocks of stock for which they paid nothing, and that the permitting them to retain four per cent. upon that stock is paying them too highly, and in a measure is an extravagant return for their investment. But it should not be forgotten that it is the company which earns the money, and not the city; that the company assumes all the expenses, and that at present that company, after paying five per cent. on its $8,000,000 of bonds and paying $960,000 for operating expenses, has a net earning of $240,000, which is equal to three per cent. on its stock. Now the franchise for the next sixteen years to the City of Providence is of no value. At no time will it ever be regarded by the citizen as anything that costs him money. If the franchise be extended for a period of fifty years, and the Union Railroad Company grant an extension of transfers and divide the profits, the problem is absolutely settled for all time. Whatever advances may be made in electrical discovery and the application of electricity to the running of cars, or the reduction of expenses, or whatever the future may bring forward in simplifying and solving the problem of running the road, the city is an absolute gainer. Without working, it gets an income, and without giving up any property that it owns it can have a return within a few years, in addition to the transfers, of at least $500,000 per year.

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Sentiment ought not to stand in the way. Politics should be absolutely discarded, and this question treated as business men would treat any ordinary business proposition.

In reference to the plan proposed by the chairman, it might be well for this council to learn that from the year 1891 to the year 1895, inclusive, the assessed valuation placed upon new buildings erected in the City of Providence was $11,947,-831, and the estimated cost of those buildings according to the Inspector of Buildings was $17,156,150. Transfers are demanded by the people. The people are willing to pay for them if they can't get them without pay, and the payment that will be the least felt by the citizens of Providence is the extension of franchise; and, not only that, the city treasury will be benefitted, and the benefits will increase each year, according to the plan which I had the honor to submit.

While I am a disbeliever in the theory that the Legislature is to solve this problem for us to our satisfaction, and while I am apprehensive of going there, still, as the majority of the committee believe that an appeal should be made to the Legislature, I am perfectly willing that a committee should be sent there. But the committee should be instructed as to its duties, and limited as to its powers; that under no circumstances should it have any power to enter into any negotiations, directly or indirectly, with the company through the Legislature. Let the question be presented to the Legislature as the majority of the committee think the question now stands. And while we run a great risk in doing that, it seems to me that it is necessary in order that this question may finally be settled.

Respectfully submitted,

GEORGE J. WEST.

Providence, April 6, 1896.

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No. 144. RESOLUTION TO APPLY TO THE GENERAL ASSEMBLY FOR LEGISLATION TO REQUIRE THE UNION RAILROAD CO. TO ISSUE TRANSFER TICKETS.

[Approved April 8, 1896.]

Resolved, That the City Solicitor, together with Messrs. WEST, RATHBONE GARDNER, KAVANAGH and TANNER, of the Common Council, and Aldermen BURBANK and MCCARTHY, be and they are hereby instructed to make application to the General Assembly at its present session for such legislation by amendment of the charter of the Union Railroad Company as will require said company to issue to every person who pays a cash fare on any of the street railway lines of said company or upon the lines of the Providence Cable Tramway Co., operated by said Union Railroad Co. within the city limits, a transfer ticket which will entitle such person to continue his journey on any intersecting line to any other point within the city limits, not in the same general direction from which he came; and said committee is instructed to enter into no negotiations with the Union Railroad Company before the Legislature and to consent to no compromise legislation.

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FIFTY-THIRD QUARTERLY REPORT

OF THE

Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING, MARCH 31, 1896.



REMINGTON PRINTING CO., CITY PRINTERS.
63 Washington Street,
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REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS,
CITY HALL, PROVIDENCE, R. I., April 1, 1896.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter IV. of the ordinances, the Commissioner of Public Works respectfully presents the fifty-third quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending March 31, 1896:

WATER WORKS.

The average daily consumption of water during the last quarter was 9,250,374 gallons.

Statement of sizes and lengths of pipe laid since the commencement of the work:

36-inch	10,084.00 feet.
30-inch	59,893.04 feet.
24-inch	43,553.03 feet.
20-inch	9,626.59 feet.
16-inch	33,524.97 feet.
12-inch	85,365.99 feet.
10-inch	14,653.13 feet.
8-inch	246,579.34 feet.
6-inch	1,059,378.24 feet.
Total	1,562,658.33 feet.

or 295.958+miles.

The total number of fire hydrants is now seventeen hundred—sixteen hundred and thirty-seven flush and sixty-three post hydrants.

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During the quarter one hundred and eighty-nine water meters were set, of which number eight were to replace other meters. The use of five meters was discontinued.

The following meters were in use at the close of the quarter:

Kind.	Size.								Total.
	⅝-in.	¾-in.	1 in.	1½-in	2 in.	3 in.	4 in.	6 in.	
Ball & Fitts, piston	3,141	623	149	33	6				3,952
Ball & Fitts, rotary			21	18	2	3	2		46
Crown	6,735	676	178	82	24	12	11		7,718
Fales, Jenks & Sons			1						1
Thomson	1,937	318	73	52	22	7	6	4	2,419
Trident	28								28
Worthington	2	1			1		1		5
	11,843	1,618	422	185	55	22	20	4	14,169

Ninety-two plumbers' licenses were issued during the quarter, all of which expire December 31, 1896.

Five hundred and forty-eight permits to do plumbing work were issued during the quarter.

Forty-one applications for water were made during the quarter, making the total number, March 31, 1896, twenty-one thousand and forty-four.

The number of new service stops opened during the quarter was seventy-five.

The total number of service stops opened to March 31, 1896, inclusive, was twenty thousand three hundred and sixty-three. The number in actual use March 31, 1896, was eighteen thousand seven hundred and sixty-one.

The amount of bills approved on account of water works from January 1 to March 31, 1896, inclusive, was:

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For construction and extension, . . . $34,048 22

Classified as follows:

Cast iron water pipe	$19,410 56	
Stop valves	2,999 05	
Worthington high-duty pumping engine	2,500 00	
Fire hydrants, boxes and covers	2,215 00	
Laying water pipe	1,905 92	
Service pipe	1,204 05	
Special castings	907 09	
Taps and stops	820 80	
Laying service pipe	642 01	
Labor on and carting pipe	368 48	
Tools	306 99	
Barn expenses	265 11	
Babcock and Wilcox boilers at Hope station—to erect	241 56	
Wharf salaries	195 00	
Horses, wagons, harnesses, etc	65 72	
Sundries	88	
	$34,048 22	

For maintenance, ... $15,353 99

Classified as follows:

PETTACONSET PUMPING STATION.

Coal and wood	$2,525 71	
Sundries	642 42	
Engineers	632 33	
Firemen	604 60	
Superintendence	299 00	
Lights	125 09	
Oil, waste and packing	84 95	
Labor on fuel	60 45	
Corliss pumping engine and house	54 60	
Barn expenses	49 95	
Cornish engine house	39 41	
Worthington pumping engine	27 43	
Care of grounds	15 30	
Worthington high-duty pumping engine	14 60	
Real estate	13 50	
		$5,189 34

SOCKANOSSET RESERVOIR.

Watchman	$182 00	
Sundries	70 58	
		252 58
Amount carried forward		$5,441 92

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Amount brought forward		$5,441 92
Hope Pumping Station.		
Engineers	$575 25	
Firemen	418 60	
Hope pumping engine, No. 2	181 29	
Lights	125 35	
Sundries	57 10	
Oil, waste and packing	27 68	
		1,385 27
Hope Reservoir.		
Watchman		204 75
Fruit Hill Reservoir.		
Watchman	$204 75	
Sundries	139 15	
		343 90
Pipe Line and Service Stops.		
Repairs	$2,090 98	
Superintendence—salaries	888 35	
		2,979 33
Meter Department.		
Water meters	$1,491 82	
Setting and repairing meters	1,370 69	
		2,862 51
Miscellaneous.		
Clerks' and Inspectors' salaries	$1,239 16	
Prevention of defilement of the Pawtuxet	416 67	
Barn expenses	221 05	
Horses, wagons, harnesses, etc	109 34	
Analyses of water	90 00	
Pipe yard, office expenses	52 00	
Telephone lines	4 00	
Sundries	2 46	
Public drinking fountains and troughs	1 63	
		2,136 31
		$15,353 99

The amount of expenditures from January 1 to March 31, 1896, inclusive, was . . $49,402 21

The total expenditures to March 31, 1896, inclusive, was $8,235,699 09

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The *net* expenditure for construction and extension from January 1 to March 31, 1896, inclusive, was $33,218 76

The *net* expenditure for construction and extension to March 31, 1896, inclusive, was $6,152,304 15

The *net* expenditure for maintenance from January 1 to March 31, 1896, inclusive, was $10,328 54

The *net* expenditure for maintenance to March 31, 1896, inclusive, was $1,310,375 95

Bills deposited with the City Treasurer for collection, from January 1 to March 31, 1896, inclusive, amounted to $332,087 30

As follows:

Water	$326,187 17
Water meters	3,193 00
Setting and repairing meters	1,463 05
Penalties	220 00
Rent of real estate	150 50
Permanently closing service stops	60 00
Old harness	5 00
Labor and material, laying service pipes, etc	778 06
Lead dross	30 52
	$332,087 30

During the quarter coupons from bills collected have been returned by the City Treasurer and receipted for, amounting to . . $325,016 34

As follows:

Water	$318,941 43
Water meters	3,282 50
Setting and repairing meters	1,531 95
Penalties	220 00
Rent of real estate	150 50
Permanently closing service stops	55 00
Old harness	5 00
Sealing fire hydrant	50
Labor and material, laying service pipes, etc	798 94
Lead dross	30 52
	$325,016 34

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SEWERS.

During the quarter ending March 31, 1896, one hundred and five permits were issued to drain layers—sixty-one for new work and forty-four for extension and repairs of drains.

Thirty-seven drain layers' licenses were issued during the quarter, all of which expire December 31, 1896.

January 6th, the offer of J. W. Bishop & Co. to erect screen gates at the Ernest street Sewage Pumping Station, was accepted. Amount $1,603.00.

January 21st, the offer of C. W. Hunt Company, of New York, to furnish a charging car, track scales, tracks and appurtenances for the boiler house of the Ernest street Sewage Pumping Station, was accepted. Amount $803.00.

January 23d, the proposal of Beaton Brothers to furnish granite catch-basin inlet stones was accepted and a contract subsequently executed. Amount $718.75.

January 28th, the proposal of Maryland Steel Company to furnish and erect in the Ernest street Sewage Pumping Station a ten-ton travelling crane, was accepted. Amount $1,699.00.

February 26th, the proposal of the New England Steam Brick Company to furnish and deliver from 500,000 to 3,000,000 sewer brick for the improved sewerage system, was accepted and a contract subsequently executed.

February 28th, the offer of Harrison Hallett for painting the iron work of the roofs of the Ernest street Sewage Pumping Station, was accepted.

February 29th, the proposal of Manchester & Hudson to furnish and deliver 300,000 Fisher Island sewer brick, was accepted and a contract subsequently executed.

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March 4th, the proposal of Charles M. Kelly to furnish and deliver 300,000 Allison & Wood sewer brick, was accepted and a contract subsequently executed.

During the quarter assessments for the cost of constructing sewers were certified to the City Treasurer, as follows:

Adelaide avenue	$ 1,238 10
Cedar street	497 65
Whitney street	1,661 23
McKinley street	1,887 10
Shawmut street	1,232 51
Roger Williams Park, Miller avenue and Broad street	12,111 11
Andem street	1,245 34
Peirce street	442 11
Chester avenue	419 58
Wellington street	370 81
Acorn street and Harris avenue	2,992 26
Lillian avenue	2,124 94
Norwich avenue	1,875 41
Rhode Island and Grand avenues	4,107 57
Goddard street	3,648 49
Van Zandt street	1,212 93
Sycamore street	466 18
Gay street	474 91
Hewes street	401 32
Broadway	325 24
Gaspee and Cove streets	2,953 15
Autumn street	925 05
Public street	2,132 53
Rhodes street and Allen's avenue	3,927 68
Stanwood street	2,306 65
Althea street	3,014 98
Harris avenue	9,184 82
Total	$63,179 65

March 5th a contract for the construction of the following section of the improved sewerage system was awarded and subsequently executed as follows:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials, or rock excavation.]

To Thomas W. Reilly.

No. of resolution.	Date of approval.		
505.	Nov. 8, 1895,	*Elmgrove, Irving and Wayland avenues, Seekonk River Division,* .	$21,306 00

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During the quarter the construction of the following sewers was completed, namely:

No. of resolution.	Date of approval.				Date of completion.
564.	Sept.	23,	1893,	*Section 10, Allen's avenue Division,* .	Jan. 8, 1896.
521.	"	25,	1894,	*Section 18, Moshassuck River Division,*	Jan. 4, 1896.
530.	Dec.	3,	1895.	*Rhode Island and Grand avenues.*	Jan. 1, 1896.
545.	"	17,	"	*Francis street, northerly from West Exchange street,*	Feb. 4, 1896.

At the close of the quarter, work upon the following sewer of the improved sewerage system was in progress, namely:

No. of resolution.	Date of approval.			
505.	Nov.	8,	1895,	*Elmgrove, Irving and Wayland avenues.*

Work upon the following sewers, completing the work ordered by the City Council, had not commenced March 31, 1896, namely:

No. of resolution.	Date of approval.			
571.	Dec.	20,	1895,	*Dexter street, from Miller to Cranston.*
572.	"	"	"	*Moshassuck River and West River Divisions, Improved Sewerage System.*

The amount of bills approved on account of sewers from January 1 to March 31, 1896, inclusive, was:

FOR CONSTRUCTION.

Regular appropriation.....	$ 5,239 94	
Improved sewerage appropriation.....	29,765 63	
		$35,005 57

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Charged as follows:

Material	$ 4,220 27
Salaries of assistant engineers	3,180 75
Contract reservations	2,042 00
Sundries, improved sewerage system	972 02
Sundries	356 88
Testing cement	75 20
Additional catch-basins	20 46
Sewer in Francis street, northerly from West Exchange.	3,016 76
Sewer in Rhode Island and Grand avenues	15 35
Sewer in Allen's avenue Division, Section 10	4,547 37
Sewer in Allen's avenue Division, Section 11	668 79
Sewer in Elmgrove, Irving and Wayland avenues	686 75
Sewer in Moshassuck river Division, Section 17	1 25
Sewer in Moshassuck river Division, Section 18	934 38
Brick buildings and chimney for sewage pumping station.	7,361 15
Foundation for sewage pumping station	6,673 26
Holly sewage pumping engines	1 00
Steel roof for sewage pumping station	231 93
	$35,005 57

For maintenance, ... $8,563 46

Charged as follows:

Repairing basins and sewers	$3,548 81
Cleaning basins and sewers	2,131 03
Cleaning and repairing old drains	731 00
Inspection of connections	610 24
Tools	520 49
Salary—superintendent	390 00
Barn expenses	359 57
Horses, wagons, harnesses, etc	109 47
Office expenses	69 74
Filling cisterns, etc	52 36
Cleaning private connections	35 80
Sundries	4 95
	$8,563 46

The *net* expenditure for construction of sewers to March 31, 1896, inclusive, was $5,622,108 00

The *net* expenditure for maintenance of sewers to March 31, 1896, inclusive, was $478,057 75

Bills deposited with the City Treasurer for collection from January 1 to March 31, 1896, inclusive, amounted to $635 91

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As follows:

Cleaning private connections	$ 84 75
Filling cisterns, etc	34 10
Sewer material	491 02
Laying drains to curbstones	26 04
	$635 91

During the quarter coupons from bills collected have been returned by the City Treasurer and receipted for, amounting to . . $748 41

As follows:

Cleaning private connections	$ 78 25
Filling cisterns, etc	41 60
Sewer material	602 52
Laying drains to curbstones	26 04
	$748 41

HIGHWAYS.

One permit to open street was issued during the quarter.

January 21st, the offer of Crabtree & Havey of West Sullivan, Maine, to furnish and deliver ten thousand lineal feet straight granite curbing was accepted. Amount $5,700.00.

January 23d, the offer of Booth Bros. and Hurricane Isle Granite Company to furnish circular curbing, curb corners and granite crosswalk stones, was accepted. Amount $1,637.50.

Statements have been prepared of the cost of curbstones set, ascertained by the Commissioner and certified to the Board of Aldermen for approval, as follows:

Rhodes street, from Eddy to Allen's avenue	$1,234 02
Maryland avenue, from New York to the city line	2,573 33
Railroad street, from Gaspee to Francis	623 06
Kossuth street, from Bowdoin to Putnam	295 96
Alma street, from Candace to Pekin	587 68
Wendell street, from Messer to Ellery	1,038 72
Althea street, from Dexter to Cranston	2,382 11
Evergreen street, from Camp to North Main	1,629 93
Amount carried forward	$00,000 00

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Amount brought forward	$00,000 00
Forest street, from Camp to Ivy	888 81
Plum street, from Oxford to Fruit	486 15
Stillman street, from Gaspee to Promenade	667 22
Taylor street, from Glenham to Chester avenue	502 10
Tingley street, from Acorn to Ashley avenue	484 75
Atlantic avenue, from Elmwood avenue to Melrose street	1,187 04
Burrington street, from Crocker avenue to Pacific	1,111 76
Ellery street, from Wendell to Chapin avenue	320 20
Fruit street, from Broad to Gordon avenue	838 85
Hudson street, from Ellery to Huntington avenue	690 39
Orchard street, from Oxford to Fruit	469 96
Reynolds avenue, from Broad street to Taylor	862 35
Charles street, from Ledge to Hagan	2,130 03
Shawmut street, from Orms to Chalkstone avenue	810 38
Silver Spring street, from Branch avenue to Charles street	2,155 54
Willow street, from Messer to Ellery	536 60
South street, from Eddy to the river	547 75
Abbott street, from Knowles to Camp	854 79
Sims avenue, from Harris to Kinsley	1,021 92
Cove street, (now West Exchange) from Sabin to West Exchange	1,414 99
Harris avenue, from Acorn street to Eagle	2,808 27
Eden street, from Broadway to Bell street	1,156 96
Oakland street, from Elmwood avenue to Public street	210 45
West River street, from Branch avenue to bridge north of McKenna street	1,019 24
Aborn street (west side) from Cedar to West Exchange	173 21
Hewes street, from Stevens to North Main	326 35
Gordon avenue, from Public street to Oxford	2,103 60
Governor street from Power to Williams	467 36
Miller avenue, from Broad street to its westerly termination	3,040 43
Potter street, from Pine to Friendship	293 06
Summer street, from opposite Meadow to Conduit	115 69
Total	$40,061 01

During the quarter statements of the cost of concreting sidewalks, with ten per centum added to cover the cost of assessing and collecting, were certified to the assessors of taxes, viz.:

Point street, from Friendship to Plain	$116 37
Cushing street, from Prospect to Hope	188 02
Beacon avenue, from Friendship street to Lockwood	58 70
Providence street, from Prairie avenue to Dudley street	36 56
Carrington avenue, from Camp street to East avenue	40 59
Walker street, from Westminster to Washington	16 35
Williams street from Benefit to South Main	32 33
Linden street, from Broad to Providence	65 40
Amount carried forward	$00,000 00

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Amount brought forward	$99,000 00
Olney street, from North Main to East avenue	829 79
Stewart street, from Broad to Westminster	52 03
Summer street, from Point to Broad	99 30
Bacon street, from North Main to Camp	120 94
Burrill street, from Westminster to Weybosset	29 36
Washington avenue from Broad street to Maryland avenue	98 87
Carpenter street, from Marshall to Courtland	18 61
Broad street, from Trinity square to the city line	1,047 63
Lockwood street, from Broad to Prairie avenue	104 98
Walnut street, from Westminster to Washington	30 51
Cranston street, from Messer to the city line	28 71
Almy street, at the northeast corner of Grove	47 22
Total	3,062 27

The following work was in progress March 31, 1896, viz.:

Sidewalks to be Curbed and Gutters Paved.

Date of order.

May 16, 1895. *Harris avenue, from Kinsley to Acorn street, and from Acorn to Eagle:*—one-half completed.

To Bring to Sub-Grade and Put in Good Condition.

No. of resolution. Date of approval.

518. Sept. 25, 1894. *Washington avenue, from Broad street to Maryland avenue.*

518. " " " *Massachusetts avenue, from Broad street to Maryland avenue.*

518. " " " *Virginia avenue, from New York avenue to Montgomery.*

To Build.

331. June 27, 1895. *Pitman street, from Wayland avenue to East River street:*—nearly completed.

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To be Paved with Granite Blocks.

151.	April	5,	1895,	*Kinsley avenue, from Gaspee street to Harris avenue:*—nearly completed.
151.	"	"	"	*Harris avenue, from Kinsley to Eagle street:*—one-half completed.
151.	"	"	"	*Peck street, from Weybosset to Dyer:*—one-half completed.
151.	"	"	"	*Hay street, from Weybosset to Friendship:*—one-half completed.

To Concrete Sidewalks.

417.	Sept.	19,	1895,	*Cranston street, from Messer to the city line.*
417.	"	"	"	*Washington avenue, from Broad street to Maryland avenue.*

The following work, ordered by the Board of Aldermen and City Council, had not commenced March 31, 1896, namely:

Sidewalks to be Curbed and Gutters Paved.

Date of order.	
May 16, 1895,	*Francis street, from Cove street and Exchange place to Gaspee street.*
" " "	*Promenade street, from present end of pavement near railroad bridge to Steeple street.*
June 20, 1895,	*Autumn street, from Eddy to Rugby.*
" " "	*Frank street, from Plain to Beacon avenue.*
" " "	*Gordon avenue, from Oxford street to Gallup.*

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Date of order.	
Sept. 19, 1895,	*Huntington avenue, from Cranston street to Union avenue.*
" " "	*River avenue, from Chalkstone to the brook on River avenue.*
" " "	*Forest street, from Ivy to East avenue.*
" " "	*Greeley street, from Charles to Opper.*
" " "	*Linwood avenue, from Cranston street to Union avenue.*
" " "	*Lisbon street, from Chalkstone avenue to Regent.*
" " "	*Marlborough street from East Beacon to Pearl.*
" " "	*Wood street, from Ellery to Huntington avenue.*

To be Paved with Granite Blocks.

No. of resolution.	Date of approval.	
151.	April 5, 1895,	*Gaspee street, from Cove to the railroad bridge abutment.*
151.	" " "	*Gaspee street, from Kinsley avenue to first angle east of Francis street.*
151.	" " "	*Francis street, from Cove and Exchange place to Gaspee street.*
151.	" " "	*Promenade street, from present end of pavement near railroad bridge to Steeple street.*
151.	" " "	*The two approaches to the proposed depot in Exchange place.*
151.	" " "	*Washington street, from Eddy to Walker.*

To be Paved with Granite Blocks and Cobble Stones.

543.	Dec. 17, 1895,	*Eddy street, from Henderson to Public.*

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To Re-build.

No. of resolution.	Date of approval.	
282.	June 15, 1895,	*Benefit street, from Wickenden to North Main.*

To Purchase, Erect and Maintain.

271.	June 7, 1895,	*Six public urinals in central part of the city.*

To Concrete Sidewalks.

417.	Sept. 19, 1895,	*Angell street, from Prospect to Benefit.*
417.	" " "	*Transit street, from Brook to Hope.*
417.	" " "	*Livingstone street, from West River to North Main.*
417.	" " "	*South Main street, from Power to Transit.*
417.	" " "	*Oriole avenue, from Butler to Grand.*
417.	" " "	*Taber avenue, from Angell street to Irving avenue.*
417.	" " "	*East Manning street, from Governor to Wayland avenue.*
417.	" " "	*Pine street, from Beacon avenue to Hay street.*

Bills approved on account of highways from January 1 to March 31, 1896, inclusive amounted to:

Regular appropriation	$31,367 85	
Special appropriation	10,354 59	
		$41,722 44

Classified as follows:

Crushed stone—material and labor	$8,378 63	
Screening gravel	6,423 34	
Cleaning streets	2,980 28	
Removing snow and ice	2,752 61	
Amount carried forward	$20,534 86	

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Amount brought forward	$20,534 86	
Barn expenses	2,445 08	
Steam rollers—repairs and supplies	1,924 36	
Blacksmith and wheelwright shop	1,819 21	
Labor on material	1,309 12	
Tools, implements, etc	778 70	
Repairs on unpaved streets	708 81	
Repairs on stone crushers	476 20	
Salaries—superintendent and clerks	442 00	
Horses, wagons, harnesses, etc	161 13	
Watchman at city yard	156 00	
Repairs on paved streets	74 09	
Office expenses, city yard	73 24	
New brick workshop—to build	55 13	
Sundries	52 90	
Fencing streets—material and labor	25 00	
		$31,045 83

New Work—Building and Rebuilding Streets, Etc.

Sidewalks Curbed and Gutters Paved.

Reynolds avenue, from Broad street to Taylor	$322 02	
West River street, from Branch avenue to bridge north of McKenna street	18 04	
		340 06

Pave with Granite Blocks.

Dyer street, from Ship to end of pavement near Friendship	$43 75	
Friendship street, from Chestnut to Dyer	26 19	
Harris avenue, from Kinsley to Eagle street	720 42	
Orange street, from Weybosset to Dyer	2,131 75	
Pine street, from Beacon avenue to Hay street	5,104 78	
Traverse street, from Wickenden to Pike	7 49	
Washington street, from Eddy to Walker	218 36	
		8,252 74

Build.

East avenue, from Olney street to Rochambeau avenue	$169 74	
East River street, including Waterman, to the new bridge	1,914 07	
		2,083 81
		$41,722 44

Bills deposited with the City Treasurer for collection from January 1 to March 31, 1896, inclusive, amounted to $442 55

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As follows:

Labor and material	$236 68
Manure from barn	74 00
Street sweepings	60 00
Blacksmithing done for other departments	47 49
Discharging cargoes at city wharf	24 38
	$442 55

During the quarter coupons from bills collected have been returned by the City Treasurer and receipted for, amounting to . . $6,730 68

As follows:

Union Railroad Co. for granite blocks, etc.	$3,534 87
New York, New Haven and Hartford Railroad Co. for granite blocks, etc.	2,748 00
Labor and material	289 38
Manure from barn	74 00
Street sweepings	60 00
Discharging cargoes at city wharf	24 38
	$6,730 63

SIDEWALKS AND CURBING.

The expenditures on account of sidewalks and curbing from January 1 to March 31, 1896, inclusive, amounted to . . . $305 70

Charged as follows:

Concreting sidewalks	$305 70

Curbing bills deposited with the City Treasurer for collection from January 1 to March 31, 1896, inclusive, amounted to . $40,549 12

During the quarter coupons from curbing bills collected have been returned by the City Treasurer and receipted for, amounting to . $11,194 25

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CITY ENGINEER.

Bills approved on account of the City Engineer's department from January 1 to March 31, 1896, inclusive, amounted to $11,683 47

Charged as follows:

Salary—City Engineer	$1,500 00
Salaries of assistants	8,953 33
Salaries of clerks	763 75
Supplies—drawing materials, etc	424 11
Sundries	21 78
Instruments and repairs	16 15
Car fares, etc	4 35
	$11,683 47

Bills deposited with the City Treasurer for collection from January 1 to March 31, 1896, inclusive, amounted to $4 20

As follows:

Blue process paper	$2 69
Plumb bob	1 00
Ink	39
Tracing cloth	12
	$4 20

During the quarter coupons from bills collected have been returned by the City Treasurer and receipted for, amounting to . . $4 20

As follows:

Blue process paper	$2 69
Plumb bob	1 00
Ink	39
Tracing cloth	12
	$4 20

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BRIDGES.

February 12th, the offer of Frank F. Carpenter to furnish and deliver 37,000 feet, B. M., white spruce plank, was accepted.

March 11th, the offer of E. R. Crowell & Co. for painting the new Central or Red Bridge, was accepted. Amount $507.00.

The following work was in progress at the end of the quarter, namely:

No. of resolution.	Date of approval.	
48.	Jan. 19, 1894,	*New City Yard, Henderson street*: —to grade and fence.
511.	Sept. 25, "	*Red Bridge, over the Seekonk river*:—nearly completed.
89.	Feb. 26, 1895,	*Washington row bridge*:—nearly completed.
252.	June 7, "	*Promenade street bridge, over the Moshassuck river*:—pier completed.
346.	July 10, "	*Exchange bridge, over the Providence river*:—abutments and piers in progress.

Bills approved on account of bridges from January 1 to March 31, 1896, inclusive, amounted to $23,460 93

Charged as follows:

Barn expenses	$88 20
Building at city yard	11 35
Burnside bridge	47 96
Central or Red Bridge	225 76
Crawford street bridge	2 20
Exchange bridge—to rebuild	6,658 23
Horses, wagons, harnesses, etc	25 96
Lumber, hardware, etc	9 05
Point street bridge	752 50
Promenade street bridge over Moshassuck river—to build.	435 72
Rent of keeper's house, Washington bridge	30 00
Amount carried forward	$8,286 93

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Amount brought forward	$8,286 93
Salaries—Central or Red Bridge	468 50
Salaries—Point street bridge	977 50
Salaries—Washington bridge	481 00
Sundries	179 28
Tools	252 09
Valley street culvert	569 14
Washington bridge	253 14
Washington row bridge—to rebuild	11,992 35
Whelden street bridge	1 00
	$23,460 93

Bills approved from January 1 to March 31, 1896, inclusive, for the construction of the new Red Bridge, have been paid from the special appropriation for that work to the amount of $12,855 65

Bills deposited with the City Treasurer for collection from January 1 to March 31, 1896, inclusive, amounted to $526 67

As follows:

Hardware and lumber furnished various departments	$524 42
Old lumber from Gaspee street foot bridge	2 25
	$526 67

During the quarter coupons, from bills collected, have been returned by the City Treasurer and receipted for, amounting to . $526 67

As follows:

Hardware and lumber furnished various departments	$524 42
Old lumber from Gaspee street foot bridge	2 25
	$526 67

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PUBLIC WORKS OFFICE.

Bills approved from January 1 to March 31, 1896, inclusive, for account of the Public Works office, amounted to . . . $4,985 44

Charged as follows:

Salaries of commissioner and secretary	$1,925 00
Salaries of office assistants	2,863 89
Office supplies	196 55
	$4,985 44

ROBERT E. SMITH,

Commissioner.

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ANNUAL REPORT

OF THE

SCHOOL COMMITTEE.

[PRESENTED JUNE 8, 1896.]



REMINGTON PRINTING CO., CITY PRINTERS,
63 Washington Street,
1896.

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REPORT.

TO THE HONORABLE CITY COUNCIL OF THE CITY OF PROVIDENCE:

The passage of another year makes it the duty of our committee to report to your honorable body the progress made by the schools during that period.

The enrollment reported April 10, 1896, is as follows, viz:

High Schools	1,320	
Grammar Schools	5,282	
Primary Schools	12,580	
Kindergartens	493	
Special Instruction	188	
		19,863
Gain	452	

For the three preceding years the enrollment at the same date was as follows, viz.:

	1893.	1894.	1895.
High	869	1,027	1,230
Grammar	4,989	5,214	5,410
Primary	10,787	11,719	12,182
Kindergartens	193	266	431
Special Instruction			158
	16,838	18,226	19,411
Gain		1,388	1,185

From these figures it appears that the gain for the past year has not equalled the average of the three preceding years, a result not surprising to our committee, who are familiar with the operation of several causes which tended to

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abnormally increase school attendance during the above named period—free text books; the enforcement of the truant law and the opening of the Manual Training School and the Commercial course in the High School. These measures have now been in operation for a sufficient length of time for the increase to have returned to its normal condition, and we think it safe to reckon on an annual growth in proportion to that of the population.

During the past year the following new primary school houses have been completed and are now in use, viz.:

Greeley Street,	Courtland Street,
Ruggles Street,	Hendrick Street,

all four-room buildings. The opening of these buildings has enabled us to close two outside rooms, one of them a hired room, ill-fitted for school purposes, and the other a room in the engine house on Smith street. This leaves a net increase of 560 sittings for an increased enrollment of 452.

A new building on Union avenue, and an addition to the Potters avenue school house, both primary, are nearly completed, and will no doubt be available at the opening of the schools in September. These, with the new grammar school on Broad street, will furnish relief to overcrowded districts, but it will be seen from the above figures that nearly the same amount of accommodations must be added every year to keep pace with the growth of the city. Our committee have asked your favorable consideration of a proposition for enlargement of the building on Camp street, which is needed to relieve congestion in the second ward, and trust that the matter will receive your prompt attention.

The pressure on our high schools has not relaxed during the year. The increased attendance made it necessary in September to extend the outside accomodations, and three rooms in Bridgham grammar school were taken for the classical department. These divisions of the school cause more or less inconvenience to the pupils, entail largely

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increased labor on those teachers who are compelled to go from building to building, and add to the expense of maintenance. They also interfere with the work of the grammar schools in whose buildings they are located, and in great measure account for the falling off in the attendance at these schools. All these considerations combine to urge the early completion of the new high school buildings now in process of erection.

One of the important changes in our schools during the present year has been the introduction into the high school of a body of student-teachers preparing under training to become teachers in secondary schools. At the opening of the school year, eight persons, who were graduates of college and were desirous of pursuing the study of pedagogy as post graduate work at Brown University, were appointed teachers in the Providence High School, receiving for their services the salary of $400.00 per annum and free tuition in pedagogy at Brown University. The service they were to render was to hear two recitations per day, and a third hour of such miscellaneous and incidental service as might be needed. Each of these student-teachers was placed under the charge (in each of the studies in which he gave instruction), of one of the most experienced and competent teachers in our high school, it being understood that under the guidance of his critic teacher he should do the daily work of his class. The arrangements were such that the critic was able to spend the time of one recitation each week with the student-teacher, observing his methods and making suggestions for his work. Also the student-teacher was able in most cases to see one recitation each week in the branch in which he was giving instruction as conducted by the critic to whom he had been appointed. Once a week the critic and the student teacher met for consultation and the preparation of work, the solution of difficulties and the study of methods.

In this way eight student-teachers, four gentlemen and four ladies, have been employed—five in the English de-

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partment and three in the Classical—doing work which has been very acceptable. Once a fortnight these teachers with their critics have met with the Professor of Pedagogy of Brown University for the discussion of the principles of education as involved in their daily work.

As to matters of discipline and general school management they have been under the direction of the principals of the departments in which their services were given.

The scheme has proved a valuable one both to the young teachers who themselves were gaining in the most ready and thorough way experience in teaching and to the more capable teachers of the high school, who by the necessity of explaining processes, making clear the application of principles and expounding the philosophy of education, have been obliged to render orderly and compact the principles already adopted by them for the government of their own work.

The general professional tone of the school has been improved, and it is the report of the principals of the departments that these young persons have done better work than any average teacher without experience that has been employed in our high school for many years past.

From this list of trained teachers vacancies in our school occurring in regular positions may be filled. In this way we hope to secure a higher grade of teaching, more professional ambition and a better adaptation to our school work than we have yet been able to do.

Upon the whole we feel that the scheme is of decided advantage, not simply to our high school and to young persons who desire to make teaching a profession, but also to Brown University which by this plan becomes the first institution to offer to a portion of its graduate students practical experience in the school room.

The committee has been especially fortunate in the beginning of this plan in the selection of the student-teachers themselves. We have obtained excellent ability, much freshness, energy and ambition, and those who have been doing

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this work are certainly desirable candidates for positions as high school teachers.

The cordial spirit in which the scheme has been received by the regular corps of high school teachers is deserving of much praise and has facilitated the development of the plan. If the plan is continued longer, and the brighter, more capable graduates of Brown University and other institutions are received into its membership, we cannot fail of being decidly benefitted by the scheme.

It is the intention to issue diplomas to those student-teachers who complete the year's work in a satisfactory manner, which diplomas ought to be of special value to them in obtaining positions elsewhere.

The subject of military drill in the high school has long been under consideration by our committee. After a careful examination by the sub-committee on high schools—in the course of which they visited Boston and inspected the system in operation in that city—they reported in favor of its introduction, and their report was adopted by the school committee at its January meeting. An appropriation for arms and equipments was asked for, and the request now awaits the pleasure of the City Council.

The evening high school was maintained during the last fall and winter for twenty weeks; the advanced and elementary schools for nineteen weeks; with results never before attained in that department of school work. Statistics of the evening schools accompany this report and are worthy of your examination. Progress has been made in the grading of these schools, changes have been made in the required qualifications for teaching, and it is now possible for a pupil who has been deprived of day school instruction to pursue his studies in the evening school to the completion of a high school course, with all the thoroughness of the day school. During the past winter, for the first time, we have had a drawing class in the evening high school and the result has been highly satisfactory. We hope that during the coming

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winter we may have better facilities for this branch of instruction. Late in the winter a special school for the instruction of Swedes was opened, and the same was continued four weeks after the other schools were closed. The progress made by these pupils was astonishing. They were all adults, some of them well educated in their own language, and attended an evening school for the purpose of gaining a knowledge of English. There is a demand for the continuance of this school and also for the opening of a school in the Second Ward for Russian Jews.

The committee on Hygiene have given prompt and careful attention to the various matters that have been brought to their notice during the year. The subject of hygiene is one that is receiving widespread attention and too much care cannot be taken of the health of our children. Many of the troubles have been remedied, and we trust that the action of the Council so promptly and unanimously taken with regard to ventilation at Bridgham street may lead to the correction of the difficulty complained of.

Sewing in a very elementary form has been regularly taught since 1890 in the three upper grades of all the primary schools, and the prejudices against it seem to be diminishing. Apart from the advantage that even little children may find in being able to take a few necessary stitches in emergencies, the value of sewing as manual training is to be emphasized. The utensils are comparatively inexpensive, and their proper use trains the mind as well as the eye and hand. The educational benefits derived from folding cloth evenly, using the needle properly, making stitches according to directions and keeping the work unsoiled, compare favorably with those received from the use of the pencil, the knife, the saw or even larger tools, and we hope this branch of work will soon be as popular in Providence as it is in forty-six other cities where it is now taught.

The Anthony Medal Readings have been conducted since their inception on the same plan, viz:—delivery of specially

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prepared essays in the high schools, and of selected and sight readings by the graduating classes in the grammar schools. The interest awakened by the competition has improved the reading in our schools to a marked degree, and proves the wisdom of the late Senator Anthony in making the bequest. The preparation for these readings by the graduating classes in the grammar schools entails a large amount of work upon both teachers and pupils in a very busy year and it is believed that the standard of reading is now sufficiently high to allow the competition to take place in the 8 A. grade, or the year before graduation. Should this change be made it would be necessary to have two competitions the first year in order to avoid the omission of one class. This would involve the expense of an extra set of silver medals, and as the income of the fund is barely sufficient to provide the annual supply, we bespeak your favorable consideration if an application is made for an appropriation for their purchase.

It is with regret that we have seen the school buildings and grounds belonging to the city used during the past year by a private charitable organization against the protest of this committee. Believing the practice to be fraught with danger to our public school system we desire to renew our protest against it and to reiterate our belief that school property should only be used by schools under the direction and control of the School Committee, the only lawfully constituted body to exercise such control.

The deficiency in our school appropriation is a matter which should receive your immediate attention. The enlargement of our school system to meet the growth of the city necessarily causes an increased expenditure every year. It is beyond the power of our committee to curtail salaries, fuel, water, and other items, which are fixed by the ordinances. Free text books are compulsory by the statutes of the state, and our committee have not been extravagant in their introduction and maintenance. Our estimates of the needs of the school department were honestly made and were

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as small as a due regard for the welfare of the schools would allow.

We do not believe that the public begrudges the money expended in the proper support of our schools, nor that the tax-payers of the city would impair the efficiency of the public school system for the saving of the sum that is lacking to bring the appropriation to the estimate.

In conclusion we would say that the high standard of our schools has been maintained during the past year, and we think some improvement has been made. We would recognize the efficient and conscientious labor performed by the Superintendent and his assistants, as well as the harmonious co-operation of the teachers in the attainment of such results.

Respectfully submitted, for the School Committee,

CHARLES R. STARK,
JAMES H. SMITH,
CHAS. A. CATLIN,

Committee.

IN SCHOOL COMMITTEE, April 24th, 1896.

Read and adopted as the report of the School Committee, and ordered transmitted to the City Council.

HENRY B. ROSE, *Secretary.*

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REPORT

OF THE

COMMITTEE ON EVENING SCHOOLS.

To the School Committee of the City of Providence:

The Committee on Evening Schools respectfully report as follows:

The evening Schools for the season of 1895-96 were opened on October 14, 1895, and continued, the Common Schools for nineteen weeks, and the High and Advanced Schools for twenty weeks. A school for Swedes has been continued for four weeks after the close of the other schools on account of the good work therein and the late commencement of the school.

We have attained during the season just ended in our Evening Schools good order and studious effort on the part of the pupils, and earnest, zealous work by the teachers, equal, we believe, to that attained in the day schools.

Our evening pupils have had an opportunity to pursue in graded classes, and under competent instructors, in the Evening High and Advanced Schools, the branches taught in the day High School, and the course of study in arithmetic, language, writing, spelling, geography and history taught in the day Grammar Schools, while in the Common Evening Schools the more elementary studies have been pursued by the pupils according to their needs, in many cases in graded classes, but mainly with individual instruction.

Fifty-two pupils in the High School have received certificates of attainment in certain branches of the day High School course, on examination satisfactory to the Superintendent of Schools, and forty-four pupils who had completed the work of the highest grammar school grade in the several Advanced Schools, successfully passed a written examination for admission to the Evening High School next season. A large number of pupils were fitted in the Common Schools to enter the Advanced Schools next season.

We believe that our efforts to increase the efficiency of our Evening School teachers have been rewarded by a marked improvement in this direction, and that we have already secured a corps of teachers able to give most satisfactory and intelligent service.

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We desire to recognize the enthusiasm and ability which has marked the work of our Visiting Principal during the past season. His successful management of the schools during their session, and his skillful planning and preliminary work have been most satisfactory to the Committee.

We have in former reports given in great detail information regarding the classification and gradation of our various schools and the means adopted to secure needed improvements. We append the usual tables of statistics and additional tables throwing light on the scope of the work and the daily occupations of the pupils, to which we invite your careful attention.*

Respectfully submitted for the Committee,

HUNTER C. WHITE, *Chairman.*

March 27, 1896.

*See last pages of statistics.

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REPORT

OF THE

SUPERINTENDENT OF SCHOOLS.

TO THE SCHOOL COMMITTEE OF THE CITY OF PROVIDENCE:

That the results of our school work fail to satisfy the public is often seen, that they fail to satisfy teachers and school officers is true likewise. Indeed, we hope never to be satisfied but constantly to seek improvement. That we are making some progress year by year we are confident and believe all acquainted with our schools acknowledge.

Looking at the present we are full of anxiety for growth; looking at the past we are encouraged, for we see our progress.

THE COURSE OF STUDY.

The public schools are for all—the bright, the steady, the ambitious, the dull, the frivolous, the indifferent. But it by no means follows that these must be treated alike or linked together in one course.

Those who speak of "shortening and enriching" our grammar school courses have in mind one class, those who point out the meagre results of our schools have in mind the other. But the teachers, and those who plan the school courses, must keep in mind both classes. In this report I am speaking chiefly of those students who do us no credit; those whom, in the press of our work, we are liable to forget, to permit to learn if they can and will.

It is a common belief, not in Providence merely, but in all parts of our country blessed with good schools that our public schools, or more definitely our grammar schools, do not, in all cases at least, provide that thorough education to our pupils that is desirable, and that the public which supports these schools at large expense may rightfully demand.

Now we ought to begin by admitting this. The management is not as definite and effective as it ought to be. Many good teachers neglect some part of their duty. A few careless or inefficient teachers fail to make the impression on their pupils that is important. We work with children whose minds are much diverted, not to say distracted, from serious, steady, thoughtful work. If our schools are to do all that is necessarily asked of us we must have the main time and effort of the

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children during the years of elementary study. There never was a time before and there is no other nation now presenting equal difficulty in securing interested, undivided work on the part of pupils.

It is a common belief that our children have too much to do, too many studies, so that they become thorough in none, and it is thought that we teach many more subjects than formerly.

What are the facts? This is the close of my twelfth year in Providence. During my first year physiology was added to the course by State enactment, and two years ago calisthenics was added; that is, two special teachers of this subject were chosen who have made more definite the work which was done before by some teachers and omitted by others. Nothing else has been added to the grammar school course. But we have taken out a year of geography and reduced the labor of the remaining years twenty per cent. We have omitted a considerable amount of work in arithmetic. There is less work in technical grammar, but more in composition. Spelling is easier—fewer hard words are learned. Drawing has been the same in time-requirement, ninety minutes per week, for the last twenty years.

The public is not unreasonable in its demands. It asks much less of the schools than the teachers seek to do and in most cases accomplish. The public believes in the three R's, and the public is right in counting these the core of school instruction. In the schools we must first of all look out for character and manners, next must come the three R's, which are essential to practical life, and beyond that are the subjects that give intelligence, breadth and culture.

If all our grammar school graduates read well, write a fair hand, are sure of their spelling, write good letters, and are ready and accurate in figures, the demands of those who criticise our schools will, with small exceptions, be met. This standard we ought to reach.

I am not content to call this an education, or the whole duty of the schools, but it is an essential part of an education and it is the duty of schools to make more of these things. So far as these attainments are concerned, I think we ought not to be troubled about the question whether we have besides these too much or too little to do. We ought to teach these things in any event to every pupil, and other things afterwards, if we can.

The three R's are reading, riting and rithmetic. As to reading, we are now doing pretty well, but might easily do better, especially in the lower grades. Those who have attended the annual prize readings of the graduating classes of our grammar schools during the last eight years will bear witness that a large number of our graduates read in a very pleasing manner.

In writing we are not doing so well. To improve the penmanship of all our pupils, except the best, is the most difficult part of the task I am accepting for our public schools. But if one writes he must spell. One needs to spell only what he writes. Hence he who can spell all the words he is likely to use in writing has sufficient attainments in that branch.

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We are taking great pains to teach pupils to spell their own vocabularies, and are succeeding well. Everybody has to write letters and ought to write them well. The handwriting should be uniform and legible, the letter should be well arranged upon the page and the thoughts should be expressed in good sentences. To be able to do this well is a significant and valuable attainment.

Lastly, everybody should be ready with figures and safe in results. There is no better preparation for business or for farther study than the clear understanding and ready use of the principles and processes of arithmetic, particularly mental arithmetic, as represented to a former generation by Colburn's First Lessons. Self-reliance, accuracy, the habit of analyzing problems and studying relations are some of the results to be obtained by such study. The pupil who is well grounded in reading, writing and arithmetic, though this be a narrow course, has a solid foundation and can broaden this course as future opportunity offers.

To say that these things ought to be done is a very different thing from making sure that they will be done. To secure this I propose to adopt the following plan; first, divide up the requirements specified into single items and assign the accomplishment of each to a particular grade and set of teachers, and then by careful and impartial tests determine whether the result required has been gained. By this means I propose to make sure that no pupil reaches the last year of the grammar school course who does not read in an intelligent and pleasing manner ordinary literary prose, who does not write a satisfactory letter in good style and good handwriting, and who is not ready and accurate in figures so far as fundamental rules, fractions and percentage are involved. The rules and conditions of promotion would remain the same as now, with a single added item, namely, that the pupil has previously obtained a certificate of qualification in the portion of this essential work designated for his grade.

For example, pupils will be promoted from the 6 B to the 6 A grade as now, provided they have first obtained certificates that they have been found ready and accurate in the fundamental rules of arithmetic. This certificate would be granted on examination by some persons other than their teacher and principal.

The effect of this plan will be to emphasize in the minds of pupils and teachers the essential character of these fundamental and practical portions of the course.

Those failing to gain the preliminary certificate mentioned at the first trial, would have a second and even a third examination after special study and drill, but would not become candidates for the regular examinations and promotions without obtaining the certificate, except for very special reasons to be determined by the Superintendent.

It is not so much a new course of study that we need as it is a better working of that which we have.

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We are often painfully impressed that pupils spend time in schools with too little substantial result of attainment and skill that is to be depended upon. How ever, if we can lay a good foundation in good school habits, we have a substantial beginning. Next in order of effort is the improvement of the conditions of school work, the adjustment of the grading, number of pupils, course of study to the needs of the pupils. Then we may fairly say to the teachers, the result now depends upon you, upon your skill and faithfulness.

While nothing about our schools is perfect, or is expected to be, we may reasonably say that our schools have now reached the point at which appeal is justly made to the teachers for good results. No longer, if ever it could be done, can our teachers say that conditions or even children are at fault if results are unsatisfactory.

The presupposition and reasonable requirement of the public school system is that average children of the place and time shall be made intelligent adults with intellectual powers working easily and effectively on the ordinary problems of life. Let our teachers feel and let the public realize that we admit our responsibility for results, that we excuse ourselves in no wise by claiming that school conditions and school children are not what they should be. All school children with whom a teacher of suitable competency cannot maintain pleasant relations and be the leader in good work are exceptional. They do not exist in considerable numbers anywhere in our schools. Some pupils may fail, but classes should never fail. If they do we must always charge ourselves in fault.

Our school system now provides good school buildings and furniture, good books and liberal supplies, classes of reasonable size, with very rare exceptions, a course of study that no man nor set of men ever made but which has grown to be from the school conditions, from the suggestions of teachers and the observation of supervisors, a course flexible and subject to constant minor changes as it is found unfit here and there. Our educational requirements of teachers are adequate, and our training schools sufficient. Nothing is left but to ask the teachers and supervisors including, of course, the Superintendent to do the rest.

The suggestions of this report have been presented to the principals of the grammar schools as part of a more comprehensive scheme for the improvement of the schools and have gained their cordial approval. I feel sure that by steady and thoughtful effort we can accomplish all that is herein pointed out and that this being done, the list of those pupils who do us discredit by their superficial attainments will be very greatly reduced.

THE DISCIPLINARY SCHOOLS.

Three schools for special discipline and instruction were opened October 30, 1893. Two additional schools were opened in the spring of 1894 and two more in the fall of that year. There are now seven such schools employing ten teachers.

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The immediate occasion of the establishment of these schools was the abolition of corporal punishment in the grammar grades and its very great restriction in the primary grades. We were thrown into confusion by the change. Discipline became more difficult and some means of restraining those who seemed without restraint were needed. At first the remedy of the teachers against insubordination was suspension and sending pupils home to their parents. While it is desirable that a full understanding should exist between teacher and parent, there is hardly anything that on the whole brings the schools more into disrepute and the teachers into contempt than frequent and wholesale sending pupils home for misconduct. The parent becomes exasperated and either deals more severely by the child than he deserves or denounces the teacher in the presence of the child. Instead of removing troublesome pupils from their bad influence over the school it often results in bringing angry and unreasonable parents to the school to its disturbance and demoralization.

Suspension has a different effect but in the nature of the case is limited to few cases and serious misconduct. The bad examples should be kept out of sight. All that the children see or hear should incline them to respect and obey their teachers. The basis of good discipline is the instinctive tendency of the child to look with reverence upon adults, to confide in those to whom it looks up.

Our children ought in the first months of school life, whether in the kindergarten or in the primary school, to learn to be quiet, obedient and industrious; for quiet, obedience and industry are the foundation elements of a good school. These requirements should be insisted upon from the beginning and continually, so that the habit of such conduct may be established. Then with ordinary pupils nothing more is needed in a disciplinary way than kind and sensible management. A few weeks ago one of our schools so trained fell into the hands of a teacher exceedingly weak in discipline. The children were of the higher primary grades and the school was in a section of the city where the public would expect to find schools disorderly and difficult to manage. In the case referred to everything went on quietly and pleasantly as usual for a week or more. The idea that they could do wrong in school had apparently never entered the children's minds. But some way they discovered that this teacher was not like other teachers. Her weakness was a temptation and in two or three days more the school was in a tumult. Its first condition showed the effect of good training, its sudden fall the evil influence of weak teachers. The school as it first stood was an illustration of our idea of school discipline. If all our schools were as good as that, little would be left to be desired for the foundation of good results.

Our disciplinary schools help us to make good schools the rule. They remove friction between teachers and pupils, withdraw the evil influence of distracting misconduct, and enable teachers to teach and not waste energy and spirit in contests for mastery.

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Though these schools are good and effective in themselves, their chief justification is the relief they bring to the regular schools, freeing the schools from the disturbing influences of unhappy natures, and relieving the teacher from the severer strain of discipline. She is enabled thereby to devote herself the more fully to the needs of the ordinary and responsive pupil.

This city, beyond any other of which I am informed provides for special pupils. In the grammar schools we have our teachers for individual instruction, by whom those ambitious of special advancement are assisted to make the leap to the class above, and by whom the dull, the slow, the deficient are helped on, the darkness being made light to them. Besides these, we have our disciplinary schools, where pupils not falling readily into school ways are brought into sympathetic relations with skillful and large-hearted teachers who win them to order, industry and self respect. It might be suspected that these schools are scenes of disorder, of struggle between teacher and pupil, exhibiting in an exaggerated way the school of the old time, in which pupils idled and played pranks, the mischevious disturbing the too good pupils who were studious and anxious for the favor of the teacher. The boys in these schools have in some way been out of relation with their former surroundings. For some reason they have not got on well with their teacher. Many of them say it is all the teacher's fault; their teachers say, they are hard cases, idle, refractory, disrespectful, ill-natured. Into these schools many such pupils come suspicious and scowling. But the atmosphere of good nature and industry around them gradually tells upon them, and within a week they drop quietly into the ranks. Of course, there are exceptions; a few are at last subdued by the rod and one has been expelled during the year, as more suitable for the reform school than the city schools.

These schools are more pleasant in aspect for the visitor, and in reality for the pupil than the ordinary school. There is no more profitable work done in our school system than is done in these schools. The teachers have been selected with care and with remarkably good success. Mrs. Esten, who supervises these schools, and who knows the school history of every pupil in them, having been brought into contact with each boy on complaint from his teacher, who has talked long and seriously with each offender, and generally with his parents, who has frequently changed the pupil to some other regular school and tried him under new conditions, who follows the boy into the disciplinary school and knows of his conduct there, has remarkable adaptation to this work and tact in its administration. Mr. Whittemore, the truant officer, has been of great service in this work, looking up the boys in their homes, impressing the parents with the majesty of the law and co-operating fully with the teachers.

Parents reluctant at first to send their sons to these schools, usually come at last to recognize the good influence which these schools have

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had over the lads, and are profuse in their expressions of gratitude to the teachers.

Another class of pupils for whom these schools were not specially designed have derived much benefit therefrom. These are intelligent foreigners who desire to obtain a knowledge of the English language, and are too old to enter the grades in which their present advancement would place them. It is true most such persons work during the day and attend evening schools during the winter season; but there are others who can give their whole time to study and who desire a readier means of progress. To them these schools offer convenient opportunities. They likewise can be made to serve more fully than they have done a class of children that appeal to our sympathies, but that usually injure our schools more than they gain good to themselves. These are the feeble-minded children. For this class, Rhode Island makes provision only by an arrangement with Massachusetts by which a small number are received at the School for the Feeble-minded at Beverly, Mass. I do not think we can in the public schools treat the class of cases for which such a school is established, but there are a good many children not so defective mentally as the term feeble-minded usually indicates, but of such low power and aptitude that they gain very little from the ordinary school. Individual instruction or instruction in small groups and the constant oversight of the teacher are necessary for these children. In adjuncts to these special schools a certain number of these children might receive the attention they need and be finally brought forward to a self-supporting life. These schools have already been of service in this direction, but the service might be much increased.

It might be supposed that these schools were an intermediate step between the ordinary school and the reform school. In many cases they do stand in this position, though they are not so intended, but rather to be special supports to school discipline in the ordinary school.

From the organization of these schools to June 30, 1895, was a period varying in the several schools from nearly two years to a year and three months. During this period 372 different pupils were enrolled, and of these only five were sent to the Reform School and but one expelled.

At the beginning of the present year, 92 pupils continued in the disciplinary schools, remaining from last year. To these, 231 have been added, making 323 cases treated. Sixteen, however, were sent to these schools for reasons other than misconduct. Of these 323 pupils, 120 have been returned to the regular schools, where 100 have maintained themselves in good standing, and 20 have failed to be satisfactory to the teachers and have been returned to the disciplinary schools. Sixty-four have left to go to work; 5 have gone to private and parochial schools; 11 have moved from the city; 2 have died; 10 have gone to the Reform School, and 30 are at home—7 on account of sickness. One hundred and one remain members of the special schools at the end of the year.

I insert here an interesting table prepared for me by the truant officer:

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COMMITMENTS TO THE REFORM SCHOOL.

Jan. 1, 1893, to June, 1893		6
September, 1893, to June, 1894.		
From Disciplinary Schools	3	
" Primary Schools	14	
" Grammar Schools	6	
" Catholic Schools	4	
" No Schools	3	
		30
September, 1894, to June, 1895:		
From Disciplinary Schools	7	
" Primary Schools	21	
" Grammar Schools	6	
" Catholic Schools	2	
" No School	1	
		37
September, 1895, to June, 1896:		
From Disciplinary Schools	10	
" Primary Schools	17	
" Grammar Schools	5	
" Catholic Schools	2	
		34

The gradually increasing number of pupils sent from the disciplinary schools to the Reform School indicates the increasing use that is made of these schools for the reclamation of those who would otherwise go directly to the Reform School.

The table that follows shows the grade of the pupils in these schools:

1 B	4	6 A	21
1 A	3	7 B	21
2 B	5	7 A	17
2 A	13	8 B	12
3 B	14	8 A	10
3 A	25	9 B	0
4 B	20	9 A	1
4 A	40	Ungraded	11
5 B	23		
5 A	33	Total	323
6 B	50		

As will be noticed, these pupils have been of all grades but one below the High School, but the greater number have been of the middle grades, those of the third to the seventh year. One grade, the 6 B, stands out conspicuous from its number. These are the boys just entering the grammar schools and coming into new combinations of pupils and under the control of men.

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The teachers in the disciplinary schools have shown great eagerness to qualify themselves for their work. They have not felt that experience and native tact were a sufficient basis for the best success, but have been anxious to learn those general principles which underlie school management and whose knowledge prepares for the exercise of personal powers. To this end they have had meetings with Mrs. Esten weekly for study and consultation.

They have in the past two years studied critically "Abbott's Gentle Measures in the Training of the Young," "White's School Management," "Parker's Talks on Pedagogics" and Donaldson's "Growth of the Brain," supplementing this study with a course on Neurology at Brown University. A round table for Child Study has been maintained and each teacher has subscribed for the "Child Study Monthly," discussing its contents and testing its suggestions; especially the chapters referring to defective children.

In doing good to others we invariably benefit ourselves. This has been verified in the case of the teachers of these schools. A marked growth of power and tact is manifested in their work.

It will be interesting to note the number of disciplinary cases reported to the office during the year. When it is considered that each of these cases requires an interview with parent or pupil and often with the teacher, that several interviews are sometimes necessary before the final adjustment is made, and that the same pupil may be reported more than once during the year, as the most troublesome ones are, this report of the number of pupils that Mrs. Esten, Supervisor of Discipline, has dealt with gives some impression of one part of her duties as well as some insight into the inner working of a great school system.

	No. pupils.	Returned on trial.	Sent to other Schools.	Sent to disciplinary Schools.	Cases pending.	Left School.
Primary.....	250	137	11	73	18	11
Grammar....	267	122	9	112	2	22

EVENING SCHOOLS.

The opinion seems to prevail, and is, I think, well founded, that our evening schools are making year by year a gratifying improvement. The evening high school is a recent development. The advanced schools have had five years of trial and appear to be doing good work.

That we may better catch the trend of the evening schools, I make the following comparisons between the schools of five winters ago and those of the past winter:

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	1891.	1896.
No. of Schools	12	20
" " Teachers at beginning of the term	192	189
" " " " end " " "	148	165
" " pupils enrolled	4075	3608
Enrollment, Common Schools	3988	2652
" Advanced Schools	87	590
" High School	0	366
Average attendance	1559	1443
" age	15.1	17
Weeks of School	16	20
Attendance first week	1995	2217
" seventh week	1282	1175
" sixteenth week	1286	1156

One can pick out a good many interesting facts from such a table as that. For example: in '91, 44 teachers were dropped before the end of the term; in '96, 24. The attendance at the end of the term was 8.7 pupils per teacher, in 1891, and 7 pupils per teacher in 1896.

The increase in average age is noticeable and this is not simply on account of the increased numbers in the advanced and high school. The average age of pupils enrolled in the common schools is 16.4 years against 15.1 five years ago. The pupils in the advanced schools average 18.2 years and those in the high school 23 years.

Whether advanced and high school pupils would attend more weeks in the year than those in elementary schools is a question that might receive different answers from different people.

It appears, however, that this winter the per cent. of pupils who attended the 16th week compared with those who attended the first week is just the same in the advanced and high that it is in the elementary; namely, 54 per cent, but neither come up to the record of 1891 which was 64 per cent. in the comparison. In making these comparisons I have taken the 16th week of each year rather than the last week of each year which was the 16th week in one year and the 20th week in the other year.

The average attendance was 38 per cent. of the enrollment in 1891 and 40 per cent. in 1896. In the common schools the enrollment was 3988 in 1891 and 2652 in 1896. Of advanced pupils there were 87 in '91 and 590 in '96. Here the evident fact is that there has been an increase in advanced and high school pupils from 87 to 647, and a decrease of elementary pupils from 3988 to 2652, a loss of 34 per cent.

I think both these changes are in the right direction. Our elementary evening schools ought to diminish in number as compulsory attendance advances the education of those who would otherwise neglect it. It will soon be true, or should be, that aside from mill operatives and laborers who come here from abroad there are few who should be attending an elementary evening school. In the natural course of events a child who

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attends day school as the law requires will in attainments be beyond the elementary evening school before becoming exempt from the operation of the law. There will of course be certain exceptional cases in which young children are allowed to work instead of attending day school and there will be a class of immigrants whose own knowledge of English is imperfect to whom an evening school affords almost the only opportunity to learn to read and write English. These two classes comprise nearly everybody who ought to be found in an elementary evening school. Four or five years ought to reduce the elementary evening schools to an attendance of two hundred or three hundred only, not including adult foreigners who are learning the English language. The future success of the evening schools of Providence lies in drawing to them as many foreigners as possible, and in extending among working people the opportunity and the inspiration for personal improvement. If this is well done, their cost will be cheerfully met.

It will be necessary to make two changes to meet in the best manner the coming calls on the evening schools. A system of popular lectures of an instructive character must be provided in connection with the evening schools, and the attainments and skill of the evening school teachers must be advanced. There will be less and less need of teachers for elementary classes and an increasing demand for those who can give students already beyond elementary work help to go farther. The pupil must always respect his teacher. The young man, not scholarly perhaps, but mature and having wits sharpened in the school of an active life will be content with no teacher whom he recognizes to be less acute and only slightly more scholarly than himself.

To gather a corps of competent and fairly permanent teachers who can show their competence to teach in the advanced schools and in the high school is one of the tasks to which I hope the evening school committee will devote itself.

ENROLLMENT.

The quarterly enrollment during the present year has been as follows:

FIRST QUARTER.

High Schools	1,427
Grammar Schools	5,032
Primary Schools	12,969
Special Schools	145
Kindergarten Schools	579
Total	20,152

This is an increase over the corresponding term of last year of 97 pupils in the High Schools and of 1 pupil in the Special Schools and of

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55 pupils in the Kindergarten Schools. It is a decrease of 86 pupils in the Grammar Schools and of 31 pupils in the Primary Schools, making the aggregate increase 36.

SECOND QUARTER.

High Schools	1,368
Grammar Schools	4,834
Primary Schools	12,767
Special Schools	179
Kindergarten Schools	519
Total	19,667

This is an increase over the corresponding term of last year as follows:

High Schools	90
Grammar Schools	177
Primary Schools	26
Special Schools	24
Kindergarten Schools	99
Total increase	416

THIRD QUARTER.

High Schools	1,320
Grammar Schools	5,282
Primary Schools	12,580
Special Schools	188
Kindergarten Schools	493
In all the Schools	19,863

This is, compared with the corresponding quarter of last year:
An increase of 90 in the High Schools,
A decrease of 128 in the Grammar Schools,
An increase of 398 in the Primary Schools,
An increase of 30 in the Special Schools,
An increase of 62 in the Kindergartens,
Making a total increase of 452.

FOURTH QUARTER.

High Schools	1,299
Grammar Schools	5,116
Primary Schools	12,821
Special Schools	219
Kindergartens	633
Total	20,088

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The enrollment for the year has been:

		Increase over last year.
High Schools	1,451	94
Grammar Schools	5,761	248 Decrease.
Primary Schools	16,986	766
Special Schools	380	26
Kindergartens	891	151
Total	25,469	789 Total increase.

Respectfully submitted,

HORACE S. TARBELL,
Superintendent.

PROVIDENCE, R. I.,
June 26, 1896.

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STATISTICS OF THE PUBLIC SCHOOLS

OF

PROVIDENCE, R. I.

City population by census of 1880		104,857
" " " " " 1885		118,070
" " " " " 1890		131,749
" " " " " 1895		153,000
School census, January 1, 1896. Males	13,169	
" " " " " Females	12,936	
Legal school age, 5-15 years total	26,105	
Number enrolled in public schools, report of census enumerators	18,998	
In parochial schools	3,549	
In private schools	563	
Not in any school	2,995	
Number of school days in the year	195	
Number of days the schools were taught	189	
Assessed value of school property	$1,892,285 00	
Taxable property of city	$169,789,060 00	
Number of school-rooms in which pupils are seated for both study and recitation under one teacher:		
Primary	272	
Grammar schools	107	
Number of school-rooms in charge of two or more teachers teaching in the same room, or in recitation room:		
Primary	10	
Grammar	13	
High	22	
Number of different school buildings June, 1896:		
High	2	
Grammar and primary	13	
Primary	59	
Special schools and annexes	7	
Number of teachers June 28, 1896, including principals:	572	
Males	48	
Females	524	
Number of scholars enrolled	25,469	
Males	13,049	
Females	12,420	

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Average daily attendance	16,123.1
Males	8,103.8
Females	8,019.3
Salaries:	
Superintendent	$4,000
Principals of high schools	$3,000, $2,500, $2,250, $2,000
Assistants in high schools	$1,900 to $600
Principal of grammar schools	$2,000, $1,500, $1,000
Assistants in grammar schools. First grade	$750
Second grade	$675
Other assistants	$625
Principals of primary schools	$675, $650
Assistants	$600, $450, $350
First critic teacher, grammar grade	$1,000
Critic teachers, grammar grade, (in addition to other salary)	$125
Critic teachers, primary grade, in addition to other salary)	$75
Pupil teachers	$300, $200
Director of music	$2,000
Four teachers, each	$700
Supervisor of drawing	$1,500
Assistant supervisors of drawing, (three each)	$1,000
Supervisor of physical training	$1,000
Assistant supervisor of physical training	$800
Principals of cooking schools	$800 to $600
Teachers of sewing	$500
Principals of kindergartens	$625, $525
Assistants in kindergartens	$300 to $500
Salaries:	
Teachers in evening schools. Principals per evening:	$5.00, $3.00, $2.50, $2.00
Assistants in "	$3.00, $2.50, $2.00, $1.50, $1.00

EXPENDITURES.

For teachers salaries	$372,327 43
Sites, buildings and furniture	287,529 56
Repairs	49,956 63
Fuel and care of buildings	67,172 68
Evening schools	30,316 62*
Supervision	9,070 00
Books, stationery and supplies	30,434 86
Miscellaneous expenses	12,125 84
Interest and sinking funds	44,136 11
Total	$903,069 73

* Includes $384.00 charged to Evening School appropriation for season of 1894-95.

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The School Census for Certain Previous Years has been:

1835	5,195	1887	23,391
1855	9,217	1888	23,054
1879	17,684	1889	22,947
1880	19,108	1890	23,114
1881	19,819	1891	22,862
1882	21,300	1892	24,001
1883	22,092	1893	25,823
1884	21,676	1894	26,309
1885	22,515	1895	25,683
1886	22,813	1896	26,105

The School Census by Wards, January, 1896.

Wards.	Children of School Age (5 to 15 Years).		
	Boys.	Girls.	Total.
I	1,189	1,165	2,354
II	1,315	1,209	2,524
III	1,763	1,868	3,631
IV	389	407	796
V	1,028	1,080	2,108
VI	1,587	1,417	3,004
VII	1,150	1,128	2,278
VIII	1,065	1,111	2,176
IX	1,231	1,204	2,435
X	2,452	2,347	4,799
Total city	13,169	12,936	26,105

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CENSUS TAKEN JANUARY OF EACH YEAR.

A Table Showing the Attendance in the Public Schools for Certain Previous Years.

1835	1,456	1887	15,506
1855	5,760	1888	14,634
1879	11,240	1889	14,850
1880	11,429	1890	14,843
1881	12,102	1891	15,544
1882	12,687	1892	15,916
1883	13,140	1893	17,074
1884	13,332	1894	17,879
1885	14,136	1895	18,304
1886	14,687	1896	18,998

A Table Showing the Attendance in the Public Schools by Wards, for 1896.

WARDS.	BOYS.	GIRLS.	TOTAL.
I.	758	663	1,421
II.	1,061	973	2,034
III.	1,093	1,153	2,246
IV.	309	323	632
V.	701	704	1,405
VI.	1,267	1,186	2,453
VII.	954	908	1,862
VIII.	823	771	1,594
IX.	1,010	940	1,950
X.	1,806	1,595	3,401
City.	9,782	9,216	18,998

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CENSUS TAKEN JANUARY OF EACH YEAR.

A Table Showing the Attendance in the Catholic Schools for Certain Previous Years.

1835		1887	3,246
1855	606	1888	3,299
1879	2,676	1889	3,403
1880	2,759	1890	3,227
1881	2,742	1891	2,962
1882	2,832	1892	3,327
1883	3,197	1893	3,700
1884	3,147	1894	3,675
1885	3,250	1895	3,450
1886	3,267	1896	3,549

A Table Showing the Attendance in the Catholic Schools, by Wards, for 1896.

WARDS.	BOYS.	GIRLS.	TOTAL.
I.	249	289	538
II.	23	23	46
III.	410	454	864
IV.	30	33	63
V.	220	256	476
VI.	134	98	232
VII.	32	40	72
VIII.	95	198	293
IX.	37	79	116
X.	380	469	469
City	1,610	1,939	3,549

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CENSUS TAKEN JANUARY OF EACH YEAR.

A Table Showing the Attendance in the Private Schools for Certain Previous Years.

1835	2,135	1887	765
1855	680	1888	688
1879	809	1889	711
1880	979	1890	717
1881	857	1891	673
1882	861	1892	657
1883	950	1893	762
1884	899	1894	765
1885	929	1895	581
1886	734	1896	563

A Table Showing the Attendance in the Private Schools, by Wards, for 1896.

WARDS.	BOYS.	GIRLS.	TOTAL.
I	71	95	166
II	78	105	183
III	1	4	5
IV	2	16	18
V	4	6	10
VI	8	9	17
VII	26	28	54
VIII	26	31	57
IX	19	16	35
X	12	6	18
City	247	316	563

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CENSUS TAKEN JANUARY OF EACH YEAR.

A Table Showing the Number of Children of School Age Not Enrolled in any School for the Years Named.

1835	1,604	1887	3,872
1855	2,984	1888	4,433
1879	2,959	1889	3,983
1880	3,941	1890	4,327
1881	4,118	1891	3,683
1882	4,920	1892	4,101
1883	4,775	1893	4,287
1884	4,298	1894	3,990
1885	4,203	1895	3,348
1886	4,125	1896	2,995

A Table Showing by Wards the Number of Children of School Age Not Enrolled in any School for 1896.

WARDS.	BOYS.	GIRLS.	TOTAL.
I.	111	118	229
II.	153	108	261
III.	259	257	516
IV.	48	35	83
V.	103	114	217
VI.	178	124	302
VII.	138	152	290
VIII.	121	111	232
IX.	165	169	334
X.	254	277	531
City	1,530	1,465	2,995

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A Table Showing the Enrollment by Departments for the First Quarter of Several Years, Indicating the Growth of the Several Departments.

Year.	Primary.	Intermediate.	Grammar.	High.	Total.
1866.....	3,386	1,817	1,843	306	7,352
1867.	3,374	1,740	1,940	333	7,388
1868.....	3,845	2,064	2,044	350	8,324
1869.....	3,746	2,060	2,227	300	8,333
1870.....	3,998	2,039	2,463	252	8,856
1871.....	3,416	2,447	2,694	289	8,646
1872.....	4,110	1,929	2,698	341	9,072
1873.....	3,962	2,123	2,687	393	9,165
1874.....	4,894	2,680	2,978	376	10,928
1875.....	5,154	2,686	3,196	394	11,430
1876.....	5,054	2,659	3,569	451	12,129
1877.....	5,432	3,185	3,689	500	12,800
1878.....	5,807	3,232	3,761	528	12,828
1879.....	5,462	3,175	3,697	515	12,848
1880.....	5,246	2,961	3,552	417	12,176
1881.....	5,670	3,138	3,666	450	12,874
1882.....	6,384	3,358	3,884	545	14,171
1883.....	6,807	3,539	4,267	608	15,221
1884.....	6,961	3,327	4,472	704	15,484
1885.....	6,970	3,577	4,542	746	15,835
1886.....	7,428	3,574	4,703	724	16,419
1887.....	7,625	2,397	4,869	720	16,611
1888.....	7,874	3,494	4,845	767	16,980
1889.....	7,464	3,329	4,689	848	16,330

	Kinder-garten.	Primary.	Grammar.	High.	Total.
1890-1.....		10,888	5,040	841	16,769
1891-2.....		11,396	4,536	905	16,839
1892-3.....	218	11,835	4,548	847	17,448
1893-4.....	313	12,365	4,870	1,063	18,651
1894-5.....	524	13,144	5,118	1,330	20,116
1895-6.....	579	13,114	5,032	1,427	20,152

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STATISTICS OF EVENING SCHOOLS, 1895-96.—*TABLE A.*

Average attendance per evening for each week of school, 1895-96.

WEEKS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Average.
Evening High School	323	323	284	302	333	296	175	269	261	262	273	223	231	205	209	180	184	192	196	204	246
Academy Ave. Advanced School	100	103	74	73	71	65	39	51	39	32	29	28	35	30	36	35	33	29	33	32	48
Bridgham St. Advanced School	83	81	56	67	59	41	29	35	37	36	34	26	30	29	55	57	59	49	54	44	48
Candace St. Advanced School...	62	79	55	64	55	52	31	43	40	39	33	26	35	39	32	29	33	29	33	30	42
Oxford St. Advanced School....	50	58	46	48	41	36	38	37	31	32	37	26	27	29	27	28	29	27	32	28	35
Thayer Street School, Advanced Deparment	29	30	25	28	25	23	17	24	20	23	16	17	21	19	20	14	19	19	20	20	21
Thayer Street School, Common Department	97	82	72	73	79	67	53	61	71	74	69	59	79	83	82	73	67	65	66	57	72
America Street School	127	100	80	81	77	82	51	71	74	79	55	61	60	52	47	47	48	38	61	.....	68
Ashmont Street School	42	39	24	22	23	25	34	20	20	31	30	26	23	28	28	22	24	17	21	.....	26
Charles Street School	139	157	120	125	116	103	68	101	97	109	107	77	90	85	84	77	82	70	82	.....	100
Federal Street School	125	132	108	106	101	90	58	73	72	86	79	70	94	85	86	74	66	47	73	.....	86
Harrison Street School	87	74	62	69	56	64	42	51	39	43	44	34	35	31	33	31	33	30	34	.....	47
Hospital Street School	107	113	86	88	85	85	75	77	67	69	69	62	65	69	68	52	59	48	56	.....	74
Manton School	103	93	79	79	77	68	63	79	75	76	66	60	64	55	58	56	53	60	57	.....	70
Mt. Pleasant School	181	159	111	115	111	100	86	64	62	77	71	51	74	72	70	51	58	45	64	.....	85
Olneyville School	144	136	106	112	108	119	94	97	87	111	115	100	111	106	108	99	90	75	100	.....	106
Orms Street School	117	104	84	90	92	77	56	84	73	75	81	61	64	63	59	49	51	45	49	.....	72
Pallas Street School	28	27	21	16	18	18	14	21	24	21	20	23	21	22	20	17	20	14	18	.....	20
Public Street School	84	66	46	54	57	64	46	61	45	50	61	42	50	47	47	38	35	35	35	.....	51
Tooleville School	105	81	64	72	59	56	53	59	51	66	60	56	67	72	77	76	73	59	71	.....	67
Wanskuck School	84	88	71	63	65	70	53	63	59	66	51	39	54	50	49	51	49	46	54	.....	59
Totals	2,217	2,125	1,674	1,747	1,708	1,601	1,175	1,441	1,344	1,457	1,400	1,107	1,330	1,271	1,295	1,156	1,165	1,030	1,209	415	1,443

NOTE The School for Swedes continued four weeks after the other schools closed. Average attendance, 25.

STATISTICS OF EVENING SCHOOLS, 1895-96.—TABLE B.

1895-96.	Different Pupils Attending.			Average number belonging.	Average attendance for season.	Age of Pupils.		Teaching Force.				
	Males.	Females.	Total.			Over 15.	Average age.	Principals.	Male assistants.	Female assistants.	Assistants at beginning.	Assistants at close.
Evening High School	221	145	366	266	246	356	23	1	9	3	10	10
Academy Avenue Advanced School	75	44	119	67	48	99	18	1	3	2	4	4
Bridgham Street Advanced School.	152	76	228	75	48	202	19	1	3	1	4	3
Candace Street Advanced School...	85	31	116	61	42	76	18	1	4	1	4	3
Oxford Street Advanced School...	72	10	82	50	35	64	18	1	2	1	3	3
Thayer Street School, Advanced Department.....	34	11	45	26	21	40	18	1	1	1	2	2
Thayer Street School, Common Department.....	121	30	151	94	72	105	17		5	7	6	8
America Street School.....	129	77	206	98	68	72	15	1	3	9	12	9
Ashmont Street School.....	47	33	80	50	26	52	14	1	1	5	6	4
Charles Street School.....	186	80	266	140	100	153	16	1	6	11	15	12
Federal Street School.....	229	24	253	142	86	187	19	1	7	6	11	10
Harrison Street School.....	93	45	138	75	47	95	18	1	1	6	7	5
Hospital Street School...	135	63	198	81	74	77	16	1	1	7	8	7
Manton School.....	65	51	116	82	70	73	16	1	2	7	9	8
Mt. Pleasant School	170	110	280	120	85	123	15	1	6	10	16	11
Olneyville School.....	150	92	242	142	106	131	15	1	4	9	13	13
Orms Street School.....	186	43	229	74	72	126	18	1	2	8	9	9
Pallas Street School.....	76	.....	76	28	20	76	18	1	1	2	3	3
Public Street School.....	107	30	137	54	51	70	15	1	1	7	8	7
Tooleville School.....	99	56	155	79	67	60	19	1	3	6	9	8
Wanskuck School.....	83	42	125	71	59	69	15	1	2	8	10	6
Visiting Principal.....	.....	.....	.....	.....	.....	.....	....	1	....	....	....	....
	2,515	1,093	3,608	1,875	1,443	2,306	17	21	67	117	169	145

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STATISTICS OF EVENING SCHOOLS—1895-96—OCCUPATIONS.

TABLE C.

Occupations of pupils of the High and Advanced Evening Schools. The arrangement of occupations is according to the relative number of each:

Factory operatives,	Plumbers,	Drivers,
Clerks,	Civil engineers,	Engineers,
Working at home,	Electricians,	Storekeepers,
Machinists,	Draughtsmen,	Cash boys,
Jewelry shop hands,	Seamstresses,	Cashiers,
Office and newsboys,	Tailors,	Cooks,
Carpenters,	Blacksmiths,	Inspectors,
Servants,	Painters,	Laundry hands,
Printers,	Shoemakers,	Milliners,
Students,	Apprentices,	Moulders,
Bookkeepers,	Boxmakers,	Musicians,
Dressmakers,	Elevator Boys,	Tanners,
Grocers,	Engravers,	Telegraph operators,
Laborers,	Florists,	Bakers,
Stenographers,	Masons,	Insurance agent,
Teachers,	Carriage builders,	Nurse.

OCCUPATIONS OF PUPILS IN ALL THE EVENING SCHOOLS.

Over one-third factory operatives.

Nearly one-third made up in nearly equal proportions of clerks, errand boys, jewelry operatives, laborers, servants.

The other third in a variety of trades and occupations.

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STATISTICS OF EVENING SCHOOLS, 1895-96—EXPENSES—TABLE D.

STATEMENT OF EXPENSES OF THE PROVIDENCE EVENING SCHOOLS FOR THE TERM OF 1895-96.

Teachers' salaries		$23,628 00
Rents		2,070 00
Books, stationery and supplies		776 47
Gas and electric lights		1,202 32
Fuel		595 50
Printing and advertising		583 63
Miscellaneous items as follows:		
Furniture, fittings, etc	$563 71	
Carriage hire	46 00	
Expressage and carting	32 10	
Labor in fitting up rooms	104 39	
Clerical service and labor in caring for furniture, books, and supplies	67 50	
Pianos, rent of, moving, and tuning	247 50	
Postage	15 50	
		$1,076 70
		$29,932,62
Balance		67 38
Total appropriation		$30,000 00

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FIFTY-FOURTH QUARTERLY REPORT

OF THE

Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING, JUNE 30, 1896.



REMINGTON PRINTING CO., CITY PRINTERS,
63 Washington Street.
1896.

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REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS,
CITY HALL, PROVIDENCE, R. I., July 1, 1896.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of chapter IV. of the ordinances, the Commissioner of Public Works respectfully presents the fifty-fourth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending June 30, 1896:

WATER WORKS.

The proposal of John R. White & Son to furnish and deliver at Hope Pumping Station three hundred and fifty tons egg coal, was accepted.

June 2nd, the following contracts were awarded under authority of Joint Resolution of the City Council No. 234, approved May 26, 1896, directing the Commissioner of Public Works to construct a separate system of water mains and hydrants for fire protection, namely:

Warren Foundry and Machine Company, for about 2,465 tons of cast iron water pipes. Total, $50,536.60.

Fuller Iron Works, for special castings at two cents per pound.

June 25th, the proposal of the Coffin Valve Company to furnish and deliver in this city ninety flush hydrants, with gates and boxes complete, for the separate system for fire protection, was accepted. Amount, $11,700.00.

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The average daily consumption of water during the last quarter was 9,170,835 gallons.

Water pipes were laid during the quarter as follows:

16-INCH.

In line with Brayton avenue, extended south	54.06 feet.

12-INCH.

In Mathewson street, Chalkstone and Kinsley avenues	776.56 feet.

10-INCH.

In Gaspee street	59.18 feet.

8-INCH.

In Chapman, Cross, Francis and Promenade streets, Adelaide, Kinsley and President avenues; in Dyer avenue, town of Johnston	3,586.39 feet.

6-INCH.

In Roger Williams Park; Althea, Andean, Aurora, Beach, Broom, Crescent, Cushing, David, Dexter, Dorrance, Goddard, Globe, Hassan, Lawton, Leland, Mason, Marion, McKinley, Melrose, Promenade, Rill, Robin, Rugby, Stillman, Somerset, Spooner, Suffolk, Wilcox, Winthrop and Woodland streets; Huntington, Mechanics, Pavilion, Slater and Yale avenues; in Kelley avenue, town of Johnston; in Clarence, Commercial, Garden, Grace, Northup and Smith streets, Arlington, Germania, Northup and Washington avenues, town of Cranston	12,916.17 feet.
Total	17,392.36 feet.

or 3.294 + miles.

Water pipes were removed or abandoned during the quarter as follows:

10-INCH.

Gaspee street	243.87 feet.

8-INCH.

Promenade street	21.92 feet.

6-INCH.

West Exchange street	525.58 feet.
Total	791.37 feet.

or .149 + miles.

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Statement of sizes and lengths of pipe laid since the commencement of the work:

36-inch	10,084.00 feet.
30-inch	59,893.04 feet.
24-inch	43,553.03 feet.
20-inch	9,626.59 feet.
16-inch	33,579.03 feet.
12-inch	86,142.55 feet.
10-inch	14,468.44 feet.
8-inch	250,143.81 feet.
6-inch	1,071,768.83 feet.
Total	1,579,259.32 feet.

or 299.102+miles.

Twenty-nine fire hydrants were set during the quarter, one in each of the following locations:

Adelaide avenue, north side, at the easterly corner of Holbrook street.
Adelaide avenue, north side, at the easterly corner of Crescent street.
Althea street, northeasterly corner of Sorrento street.
Brown University grounds, 103 feet south of Waterman street.
Brown University grounds, 281.5 feet south of Waterman street.
Brown University grounds, 122.5 feet north of George street.
Brown University grounds, 128.5 feet north of north curb line of George street.
Brown University grounds, 332.5 feet north of north curb line of George street.
Chalkstone avenue, north side, about 150 feet west of Samoset avenue.
Cranston street, Cranston, opposite north line of North street.
Cranston street, Cranston, opposite Washington avenue.
Cross street, northwest corner of Wilcox street.
Cushing street, northwest corner of Brown street.
Cushing street, north side, about 120 feet east of Prospect street.
Francis street, east side, about 230 feet south of Gaspee street.
Globe street, north side, about 200 feet west of Plain street.
Goddard street, north side, about 400 feet west of Douglas avenue.
Huntington avenue, east side, about 800 feet south of Lorea street.
Kinsley avenue, south side, about 230 feet west of east line of cold storage building.
Kinsley avenue, south side, about 1,070 feet west of east line of cold storage building.
Lawton street, north side, about 270 feet east of Crescent street.
Leland street, east side, about 160 feet north of Promenade street.
McKinley street, north side, about 95 feet east of Alger avenue.
Mechanics avenue, east side, about 220 feet north of Livingstone street.
President avenue, northeast corner of Slater avenue.
Promenade street, north side, about 320 feet west of Steeple street.
Robin street, northeast corner of Regent avenue.
Suffolk street, northeast corner of Salina street.
Washington avenue, Cranston, northeast corner of Depot avenue.

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One fire hydrant was removed from old Gaspee street, 167 feet south of Promenade street.

The total number of fire hydrants is now seventeen hundred and twenty-eight—sixteen hundred and sixty-two flush and sixty-six post hydrants.

During the quarter two hundred and thirty-six water meters were set, of which number five were to replace other meters. The use of eight meters was discontinued.

The following meters were in use at the close of the quarter:

Kind.	Size.								Total.
	⅝-in.	¾-in.	1-in.	1½-in	2-in.	3-in.	4-in.	6-in.	
Ball & Fitts, piston	3,159	625	148	33	6				3,971
Ball & Fitts, rotary			21	18	1	3	2		45
Crown	6,820	694	180	84	24	12	13		7,827
Fales, Jenks & Sons			1						1
Thomson	2,021	326	74	54	22	7	7	4	2,515
Trident	28								28
Worthington	2	1			1		1		5
	12,030	1,646	424	189	54	22	23	4	14,392

Ten plumbers' licenses have been issued during the quarter, making the total number one hundred and two, all of which expire December 31, 1896.

Nine hundred and ninety-four permits to do plumbing work were issued during the quarter.

Three hundred and thirty-two applications for water were made during the quarter, making the total number June 30, 1896, twenty-one thousand three hundred and seventy-seven.

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The number of new service stops opened during the quarter was two hundred and seventy-four.

The total number of service stops opened to June 30, 1896, inclusive, was twenty thousand six hundred and thirty-seven. The number in actual use, June 30, 1896, was nineteen thousand one hundred and forty-four.

The amount of bills approved on account of water works from April 1, to June 30, 1896, inclusive, was:

For construction and extension, ... $23,366 47

Classified as follows:

Cast iron water pipe	$ 8,873 16
Holly high-duty compound engine at Hope station—to erect	5,035 00
Laying water pipes	3,738 91
Special castings	1,761 76
Laying service pipe	1,358 15
Taps and stops	753 90
Horses, wagons, harnesses, etc	605 00
Labor on and carting pipe	375 64
Barn expenses	260 76
Tools	256 45
Wharf salaries	195 00
Service pipe	75 01
Babcock and Wilcox boilers at Hope station—to erect	74 33
Special water service for fire protection	3 40
	$23,366 47

For maintenance, ... $21,904 44

Classified as follows:

PETTACONSET PUMPING STATION.

Coal and wood	$2,608 68
Lights	910 07
Sundries	584 09
Firemen	583 60
Engineers	525 33
Superintendence	299 00
Amount carried forward	$5,510 77

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Amount brought forward	$5,510 77	
Corliss pumping engine and house	255 14	
Worthington high-duty pumping engine	142 85	
Care of grounds	133 55	
Oil, waste and packing	49 97	
Barn expenses	35 67	
Labor on fuel	18 75	
Cornish engine house	6 25	
Real estate	2 70	
		$6,155 65

SOCKANOSSET RESERVOIR.

Sundries	$389 82	
Watchman	182 00	
		571 82

HOPE PUMPING STATION.

Coal and wood	$1,610 00	
Engineers	575 25	
Firemen	418 60	
Sundries	165 33	
Care of grounds	128 50	
Lights	98 90	
Oil, waste and packing	3 95	
Hope pumping engine, No. 2	70	
		3,001 23

HOPE RESERVOIR.

Sundries	$707 80	
Watchman	204 75	
		912 55

FRUIT HILL RESERVOIR.

Sundries	$505 42	
Watchman	204 75	
		710 17

PIPE LINE AND SERVICE STOPS.

Repairs	$2,172 64	
Superintendence—salaries	890 00	
		3,062 64

METER DEPARTMENT.

Water meters	$3,708 92	
Setting and repairing meters	1,307 24	
		5,016 16
Amount carried forward		$19,430 22

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Amount brought forward		$19,430 22

MISCELLANEOUS.

Clerks' and inspectors' salaries	$1,239 16	
Prevention of defilement of the Pawtuxet	436 55	
Horses, wagons, harnesses, etc	348 71	
Barn expenses	223 90	
Analyses of water	90 00	
Sundries	55 71	
Pipe yard, office expenses	26 10	
Public drinking fountains and troughs	23 89	
Real estate at Pawtuxet	17 50	
Telephone lines	12 70	
		2,474 22
		$21,904 44

The amount of expenditures from April 1 to June 30, 1896, inclusive, was $45,270 91

The total expenditures to June 30, 1896, inclusive, was $8,280,970 00

The *net* expenditure for construction and extension from April 1 to June 30, 1896, inclusive, was	$21,709 60
The *net* expenditure for construction and extension to June 30, 1896, inclusive, was	$6,174,013 75
The *net* expenditure for maintenance from April 1 to June 30, 1896, inclusive, was	$14,983 02
The *net* expenditure for maintenance to June 30, 1896, inclusive, was	$1,325,358 97

Bills deposited with the City Treasurer for collection from April 1 to June 30, 1896, inclusive, amounted to $63,971 81

As follows:

Water	$55,445 67
Water meters	4,651 50
Setting and repairing meters	1,927 92
Rent of real estate	168 00
Penalties	66 00
Examination and repairs of pipe line	35 90
Permanently closing service stops	15 00
Second-hand harness	5 00
Old oil barrel	50
Labor and material, laying service pipes, etc	1,252 67
Fire hydrants	400 00
Old iron	3 65
	$63,971 81

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During the quarter coupons from bills collected have been returned by the City Treasurer and receipted for, amounting to . . . $65,936 06

As follows:

Water	$57,291	77
Water meters	4,627	50
Setting and repairing meters	2,080	42
Rent of real estate	168	00
Penalties	66	00
Permanently closing service stops	20	00
Examination and repairs of pipe line	20	00
Second-hand harness	5	00
Old oil barrel		50
Labor and material, laying service pipes, etc	1,253	22
Fire hydrants	400	00
Old iron	3	65
	$65,936	06

SEWERS.

During the quarter ending June 30, 1896, three hundred and seventy-six permits were issued to drain layers—two hundred and sixty-five for new work and one hundred and eleven for extension and repairs of drains.

Seven drain layers' licenses were issued during the quarter, making the total number forty-four, all of which expire December 31, 1896.

April 7th, the offer of the Narragansett Improvement Company to cover the roof of the coal vaults at Ernest Street Pumping Station with Trinidad Lake asphalt pavement was accepted.

May 20th, the proposal of Corliss Steam Engine Company to furnish the filth hoist, and erect in place, at the Ernest Street Pumping Station, was accepted. Amount, $2,240.00.

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May 20th, the proposal of J. A. Dailey & Son to build a bridge at the Ernest Street Pumping Station, in accordance with plans and specifications, was accepted. Amount, $685.00.

April 22d, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials, or rock excavation.]

To George R. Newman & Co.

No. of resolution.	Date of approval.				
571.	Dec.	20,	1895,	*Dexter street, from Miller to Cranston,*	$1,920 25
148.	April	9,	1896,	*In line of Blackstone street, easterly from Allen's avenue,* . .	7,885 50

To Frederick E. Shaw.

149.	April	9,	1896,	*Camp street, from Doyle avenue to Howell street,* . .	$3.41
151.	"	"	"	*Hope street, from East avenue to Thayer street,* . . .	10 04

To Timothy F. Lyons.

150.	April	9,	1896,	*Grand avenue, from Angell street to Oriole avenue,* . .	$297 67
153.	"	"	"	*Wheaton and South Court streets,* . .	468 87

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To Watson & Sherman.

No. of resolution.	Date of approval.				
152.	April	9,	1896,	*Melrose, Broad, Early and Colfax streets,*	$1,623 30

June 25th, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

To Edward W. Everson.

No. of resolution.	Date of approval.				
230.	May	26,	1896,	*Harris avenue, from Grove street to north of Atwell's avenue,* .	$5,918 30

To Watson & Sherman.

249.	May	29,	1896,	*President avenue and Blackstone boulevard,*	$1,804 63
252.	"	"	"	*Liberty street, from Smith street, northerly,*	216 10
287.	June	24,	1896,	*Francis, Lincoln and Gaspee streets,* . .	2,139 01

To Frederick E. Shaw.

250.	May	29,	1896,	*Globe street, from Beacon avenue to Plain street,* . . .	$297 20
251.	"	"	"	*Harriet and Sayles streets,*	710 30

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To George R. Newman & Co.

No. of resolution.	Date of approval.		
406.	July 15, 1889,	*Section 4, Disposal Division, Improved Sewerage System, Condensing water Intake,*	$13,654 50

June 30th, a contract for dredging was awarded and subsequently executed, namely:

To J. A. Dailey & Son.

No. of resolution.	Date of approval.		
406.	July 15, 1889,	*Section 4, Disposal Division, Improved Sewerage System, Condensing water Intake,*	$2,640 00

During the quarter the construction of the following sewers was completed, namely:

No. of resolution.	Date of approval.		Date of completion.
571.	Dec. 20, 1895,	*Dexter street, from Miller to Cranston,*	May 14, 1896.
149.	April 9, 1896,	*Camp street, from Doyle avenue to Howell street,* . .	June 1, 1896.
150.	" " "	*Grand avenue, from Angell street to Oriole avenue,* .	May 13, 1896.
152.	" " "	*Melrose, Broad, Early and Colfax streets,*	May 20, 1896.
153.	" " "	*Wheaton and South Court streets,* . .	June 30, 1896.

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At the close of the quarter, work upon the following sewer of the improved sewerage system was in progress, namely:

No. of resolution.	Date of approval.	
505.	Nov. 8, 1895,	*Elmgrove, Irving and Wayland avenues.*

Work upon the following lateral sewers was in progress at the close of the quarter, namely:

No. of resolution.	Date of approval.	
148.	April 9, 1896,	*In line of Blackstone street, from Allen's avenue, easterly.*
151.	" " "	*Hope street, from East avenue to Thayer street.*
287.	June 24, "	*Francis, Lincoln and Gaspee streets.*

Work upon the following sewers, completing the work ordered by the City Council, had not commenced June 30, 1896, namely:

No. of resolution.	Date of approval.	
406.	July 15, 1889,	*Section 4, Disposal Division, Improved Sewerage system—Condensing Water Intake.*
406.	" " "	*Section 4, Disposal Division, Improved Sewerage system—Dredging for Condensing Water Intake.*
572.	Dec. 20, 1895,	*Moshassuck River and West River Divisions, Improved Sewerage System.*
159.	April 17, 1896,	*Davis Park and Pleasant Valley Division, Improved Sewerage System.*

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230.	May	26,	"	*Harris avenue, from Grove street to north of Atwell's avenue.*
249.	"	29,	"	*President avenue and Blackstone boulevard.*
250.	"	"	"	*Globe street, from Beacon avenue to Plain street.*
251.	"	"	"	*Harriet and Sayles street.*
252.	"	"	"	*Liberty street, from Smith street, northerly.*
302.	June	27,	1896,	*Broad and Colfax streets.*
303.	"	"	"	*Burrington street and Jackson avenue.*
304.	"	"	"	*Felix street, from Chalkstone avenue to Valley street.*
305.	"	"	"	*Jewett street, from Park to Holden.*
306.	"	"	"	*Thayer street, from Arnold to Transit.*

The amount of bills approved on account of sewers from April 1 to June 30, 1896, inclusive, was:

FOR CONSTRUCTION.

Regular appropriation	$26,095 42	
Improved sewerage appropriation	57,696 80	
		$83,792 22

Charged as follows:

Material	$15,281 46
Contract reservations	11,177 64
Salaries of assistant engineers	3,028 50
Sundries	222 22
Testing cement	142 80
Additional catch-basins	102 91
Tools	23 30
Laying drains to curbstone	12 09
Sundries, improved sewerage system	4 11
Sewer in line of Blackstone street, from Allen's avenue easterly	7,099 49
Sewer in Camp street, from Doyle avenue to Howell street	1,059 03
Amount carried forward	$38,153 55

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Amount brought forward	$38,153 55	
Sewer in Dexter street, from Miller to Cranston	2,247 82	
Sewer in Francis, Lincoln and Gaspee streets	97 80	
Sewer in Grand avenue, from Angell street to Oriole avenue	339 05	
Sewer in Hope street, from East avenue at Olney street to Thayer street, near Hope	2,108 25	
Sewer in Melrose, Broad, Early and Colfax streets	1,929 49	
Sewer in Wheaton and South Court streets	3,115 58	
Sewer in Allen's avenue Division, Section 10	19 50	
Sewer in Disposal Division, Section 4	6 00	
Sewer in Elmgrove, Irving and Wayland avenues	13,070 94	
Sewer in Siphon Division, Section 16	4 40	
Brick buildings and chimney for sewage pumping station	15,261 29	
Foundation for sewage pumping station	1,197 34	
Holly sewage pumping engines	5,950 00	
Steel roof for sewage pumping station	291 21	
	$83,792 22	

For maintenance, ... $10,209 86

Charged as follows:

Repairing basins and sewers	$3,613 70
Cleaning basins and sewers	3,095 15
Cleaning and repairing old drains	1,242 63
Inspection of connections	613 08
Tools	558 61
Salary—superintendent	390 00
Barn expenses	348 53
Horses, wagons, harnesses, etc	261 82
Cleaning private connections	48 00
Office expenses	17 81
Sundries	14 53
Filling cisterns, etc	6 00
	$10,209 86

The *net* expenditure for construction of sewers to June 30, 1896, inclusive, was $5,705,848 93

The *net* expenditure for maintenance of sewers to June 30, 1896, inclusive, was $488,139 76

Bills deposited with the City Treasurer for collection from April 1 to June 30, 1896, inclusive, amounted to $266 49

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As follows:

Pumping out cellars, etc.	$97 20
Cleaning private connections	93 00
Building track inlet for New England Railroad Company	25 00
Sewer material	39 08
Laying drains to curbstone	9 00
Amount refunded by Maryland Steel Company	3 21
	$236 49

During the quarter coupons from bills collected have been returned by the City Treasurer and receipted for, amounting to $179 14

As follows:

Cleaning private connections	$93 50
Pumping out cellars, etc.	34 35
Sewer material	39 08
Laying drains to curbstone	9 00
Amount refunded by Maryland Steel Company	3 21
	$179 14

HIGHWAYS.

Eight permits to open streets were issued during the quarter.

April 30th, the proposal of the Rhode Island Concrete Company to fill the joints of granite block paving with pea gravel and paving cement during the year 1896, was accepted.

During the quarter assessments of the cost of concreting sidewalks, with ten per centum added to cover the cost of assessing and collecting, were certified to the assessors of taxes, viz.:

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Angell street, from Prospect to Benefit	$27 78
Taber avenue, from Angell street to Irving avenue	9 90
East Manning street, from Governor to Wayland avenue	52 11
Pine street, from Beacon avenue to Hay street	20 91
South Main street, from Power to Transit	55 88
Transit street, from Brook to Hope	26 30
Livingstone street, from West River to North Main	454 35
Cranston street, from Messer to the city line (balance)	192 07
Washington avenue, from Broad street to Maryland avenue (balance)	473 94
In sundry streets under authority of city council resolution No. 446, approved September, 27, 1895	790 32
	$2,103 56

By chapter 724 of the ordinances, approved June 2, 1896, so much of chapter 637 as authorized the paving of Washington street, from Eddy street to Walker street, with granite blocks, under resolution No. 151, approved April 5, 1895, was repealed.

During the quarter the following work was completed:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.	
June 20, 1895,	*Frank street, from Plain to Beacon avenue.*
Sept. 19, "	*Greeley street, from Charles to Opper.*
" " "	*Wood street, from Ellery to Huntington avenue.*

TO BRING TO SUB-GRADE AND PUT IN GOOD CONDITION.

No. of resolution.	Date of approval.	
518.	Sept. 25, 1894,	*Washington avenue, from Broad street, to Maryland avenue.*
518.	" " "	*Massachusetts avenue, from Broad street to Maryland avenue.*
518.	" " "	*Virginia avenue, from New York avenue to Montgomery.*

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To Build.

No. of resolution.	Date of approval.	
331.	June 27, 1895,	*Pitman street, from Wayland avenue to East River street.*

To Re-Build.

282.	June 15, 1895,	*Benefit street, from Wickenden to North Main.*

To be Paved with Granite Blocks.

151.	April 5, 1895,	*Peck street, from Weybosset to Dyer.*
151.	" " "	*Hay street, from Weybosset to Friendship.*

To Set Bound Stone.

231.	May 26, 1896,	*Montgomery avenue, on the east line of Broad street.*

To Concrete Sidewalks.

417.	Sept. 19, 1895,	*Cranston street, from Messer to the city line.*
417.	" " "	*Washington avenue, from Broad street to Maryland avenue.*
417.	" " "	*Angell street, from Prospect to Benefit.*
417.	" " "	*Transit street, from Brook to Hope.*
417.	" " "	*Livingstone street, from West River to North Main.*

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No. of resolution.	Date of approval.	
417.	Sept. 19, 1895,	*South Main street, from Power to Transit.*
417.	" " "	*Oriole avenue, from Butler to Grand.*
417.	" " "	*Taber avenue, from Angell street to Irving avenue.*
417.	" " "	*East Manning street, from Governor to Wayland avenue.*
417.	" " "	*Pine street, from Beacon avenue to Hay street.*

The following work was in progress June 30, 1896, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.	
May 16, 1895,	*Harris avenue, from Kinsley to Acorn street, and from Acorn to Eagle:*—nearly completed.
Sept. 19, "	*Forest street, from Ivy to East avenue:*—nearly completed.
" " "	*Linwood avenue, from Cranston street to Union avenue:*—in process.
May 21, 1896,	*Goddard street, from Douglas avenue to Candace street:*—in process.

TO BE PAVED WITH GRANITE BLOCKS.

No. of resolution.	Date of approval.	
151.	April 5, 1895,	*Kinsley avenue, from Gaspee street to Harris avenue:*—nearly completed.
151.	" " "	*Harris avenue, from Kinsley to Eagle street:*—three-fourths completed.

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The following work, ordered by the board of aldermen and city council, had not commenced June 30, 1896, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.	
May 16, 1895,	*Francis street, from Cove street and Exchange place to Gaspee street.*
" " "	*Promenade street, from present end of pavement near railroad bridge to Steeple street.*
June 20, "	*Autumn street, from Eddy to Rugby.*
" " "	*Gordon avenue, from Oxford street to Gallup.*
Sept. 19, "	*Huntington avenue, from Cranston street to Union avenue.*
" " "	*River avenue, from Chalkstone to the brook on River avenue.*
" " "	*Lisbon street, from Chalkstone avenue to Regent.*
" " "	*Marlborough street, from East Beacon to Pearl.*
May 21, 1896,	*Globe street, from Beacon avenue to Plain street.*
" " "	*Blackstone street, from Eddy to Allen's avenue.*
" " "	*Beach street, from Park to Holden.*
June 18, "	*Blackstone street, north side, from Plain to Culver.*
" " "	*Fuller street, from Wilson to Sprague.*

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To be Paved with Granite Blocks.

No. of resolution.	Date of approval.	
151.	April 5, 1895,	*Gaspee street, from Cove to the railroad bridge abutment.*
151.	" " "	*Gaspee street, from Kinsley avenue to first angle east of Francis street.*
151.	" " "	*Francis street, from Cove and Exchange place to Gaspee street.*
151.	" " "	*Promenade street, from present end of pavement near railroad bridge to Steeple street.*
151.	" " "	*The two approaches to the proposed depot in Exchange place.*

To be Paved with Granite Blocks and Cobble Stones.

543.	Dec. 17, 1895,	*Eddy street, from Henderson to Public.*

To Purchase Erect and Maintain.

271.	June 7, 1895,	*Six public urinals in central part of the city.*

To be Paved with Trinidad Asphalt.

261.	June 2, 1896,	*Washington street, from Walker to Dorrance.*
261.	" " "	*Snow street, from Washington to Westminster.*
282.	" 24, "	*Fulton street, from Eddy to Dorrance.*
283.	" " "	*Washington street, from Eddy to Dorrance.*

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To Reduce Width of Sidewalks.

No. of resolution. Date of approval.

271. June 19, 1896, *Fulton and Washington streets, adjoining City Hall.*

Bills approved on account of highways from April 1 to June 30, 1896, inclusive, amounted to:

Regular appropriation	$47,699 71	
Special appropriation	56,525 84	
Special credit appropriation	5,655 15	
		$109,880 70

Classified as follows:

Cleaning streets	$18,293 08	
Repairs on unpaved streets	9,359 32	
Repairs on paved streets	4,632 72	
Crushed stone—material and labor	3,500 73	
Barn expenses	2,343 08	
Blacksmith and wheelwright shop	2,105 01	
Tools, implements, etc.	1,801 84	
Labor on material	1,763 12	
Repairs on stone crushers	679 84	
Removing snow and ice	655 00	
Steam rollers—repairs and supplies	611 88	
Horses, wagons, harnesses, etc.	463 49	
Salaries—superintendent and clerks	442 00	
Fencing streets—material and labor	293 86	
Building driveways, etc.	200 51	
Watering streets	157 23	
Watchman at city yard	156 00	
Sundries	126 85	
Screening gravel	69 48	
Office expenses, city yard	28 67	
Repairing sidewalks and driveways opposite public buildings	16 00	
		47,699 71

New Work—Building and Re-building Streets, Etc.

Sidewalks Curbed and Gutters Paved.

Forest street, from Ivy to East avenue	$743 68	
Frank street, from Plain to Beacon avenue	1,081 24	
Goddard street, from Douglas avenue to Candace street.	927 03	
Greeley street, from Charles to Opper	1,680 72	
Amounts carried forward	$4,432 67	$47,699 71

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Amounts brought forward.....	$4,432 67	$47,699 71
Huntington avenue, from Cranston street to Union avenue.....	270 73	
Kinsley avenue, from Gaspee street to Harris avenue....	5,661 81	
Linwood avenue, from Cranston street to Union avenue..	638 75	
Marlborough street, from East Beacon to Pearl.....	11 20	
River avenue, from Chalkstone to the brook on River avenue.....	1,287 30	
Wood street, from Ellery to Huntington avenue.....	1,035 96	
		13,338 42

PAVE WITH GRANITE BLOCKS.

Dyer street, from Ship to end of pavement near Friendship	$12,192 30	
Friendship street, from Chestnut to Dyer.....	19 20	
Gaspee street, from Cove to the railroad bridge abutment.	800 86	
Gaspee street, from Kinsley avenue to first angle east of Francis street.....	1,187 53	
Harris avenue, from Kinsley to Eagle street.....	16,892 63	
Hay street, from Weybosset to Friendship.....	2,257 54	
Orange street, from Weybosset to Dyer.....	2 00	
Peck street, from Weybosset to Dyer.....	1,916 60	
Pine street, from Beacon avenue to Hay street	707 46	
		35,976 12

PAVE WITH TRINIDAD ASPHALT.

Washington street, from Walker to Eddy and from Eddy to Dorrance.....		491 27

TO GRADE AND PUT IN GOOD CONDITION.

Massachusetts avenue, from Broad street to Maryland avenue.....	$532 52	
Virginia avenue, from New York to Montgomery.....	128 40	
Washington avenue, from Broad street to Maryland avenue.....	452 63	
		1,113 55

BUILD.

Pitman street, from Wayland avenue to East River street	1,963 79

RE-BUILD.

Benefit street, from Wickenden to North Main.....	9,297 84
	$109,880 70

Bills deposited with the City Treasurer for collection from April 1 to June 30, 1896, inclusive, amounted to $7,953 92

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As follows:

Union Railroad Company for granite blocks, etc.....	$5,793 22
Labor and materials.....	1,155 21
Blacksmith and harness work done for other departments	717 90
Manure from barn.....	74 00
Old iron.....	59 21
Street sweepings.....	50 00
Disharging cargoes at city wharf.....	49 88
Old harness.....	25 00
Steel plow beam.....	22 50
Removing trees.....	7 00
	$7,953 92

During the quarter coupons from bills collected have been returned by the City Treasurer and receipted for, amounting to . . . $2,718 83

As follows:

Union Railroad Company for granite blocks, etc.....	$1,075 14
Blacksmith and harness work done for other departments	702 34
Labor and materials.....	653 76
Manure from barn.....	74 00
Old iron.....	59 21
Street sweepings.....	50 00
Disharging cargoes at city wharf.....	49 88
Old harness.....	25 00
Steel plow beam.....	22 50
Removing trees.....	7 00
	$2,718 83

Sidewalks and Curbing.

The expenditures on account of sidewalks and curbing from April 1 to June 30, 1896, inclusive, amounted to $8,259 01

Charged as follows:

Granite curbing.....	$5,433 95
Concreting sidewalks.....	2,825 06
	$8,259 01

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Curbing bills deposited with the City Treasurer for collection, from April 1 to June 30, 1896, inclusive, amounted to $783 15

During the quarter coupons from curbing bills collected have been returned by the City Treasurer and receipted for, amounting to . . $8,316 79

CITY ENGINEER.

Bills approved on account of the City Engineer's department from April 1 to June 30, 1896, inclusive, amounted to $10,553 26

Charged as follows:

Salary—city engineer	$500 00
Salaries of assistants	8,232 61
Salaries of clerks	763 75
Car fares	410 25
Supplies—drawing materials, etc	379 84
Instruments and repairs	249 80
Sundries	17 01
	$10,553 26

Bills deposited with the City Treasurer for collection from April 1 to June 30, 1896, inclusive, amounted to $29 69

As follows:

One transit	$25 00
Blue process paper	4 69
	$29 69

During the quarter coupons from bills collected have been returned by the City Treasurer and receipted for, amounting to . . . $29 69

As follows:

One transit	$25 00
Blue process paper	4 69
	$29 69

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BRIDGES.

The following work was in progress at the end of the quarter, namely:

No. of resolution.	Date of approval.	
48.	Jan. 19, 1894,	*New city yard, Henderson street:*—to grade and fence.
511.	Sept. 25, "	*Red bridge, over the Seekonk river:*—nearly completed.
89.	Feb. 26, 1895,	*Washington row bridge:*—nearly completed.
252.	June 7, "	*Promenade street bridge over the Moshassuck river:*—nearly completed.
346.	July 10, "	*Exchange bridge, over the Providence river:*—abutments and piers completed.

Bills approved on account of bridges from April 1 to June 30, 1896, inclusive, amounted to $39,438 84

Charged as follows:

Barn expenses	$87 34
Building at city yard	3 75
Burnside bridge	26 80
Central or Red bridge	260 03
Crawford street bridge	3,901 29
Exchange bridge—to rebuild	20,160 91
Gaspee street bridge	120 62
Horses, wagons, harnesses, etc	47 29
Lumber, hardware, etc	5 45
Point street bridge	482 11
Promenade street bridge over Moshassuck river—to build	11,673 88
Rent of keeper's house, Washington bridge	30 00
Salaries—Central or Red bridge	501 75
Salaries—Point street bridge	978 25
Salaries—Washington bridge	481 00
Sundries	19 66
Tar bridge, Manton avenue	9 01
Amount carried forward	$38,789 14

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Amount brought forward	$38,789 14	
Tools	133 51	
Wanskuck bridge	5 10	
Washington bridge	226 86	
Washington row bridge—to rebuild	272 73	
Weybosset bridge	11 50	
	$39,438 84	

Bills approved from April 1 to June 30, 1896, inclusive, for the construction of the new Red bridge, have been paid from the special appropriation for that work to the amount of $663 92

Bills deposited with the City Treasurer for collection from April 1 to June 30, 1896, inclusive, amounted to $61 65

As follows:

Union Railroad Company for plank on Washington bridge	$51 55	
Old lumber from various bridges	10 00	
	$61 55	

During the quarter coupons from bills collected have been returned by the City Treasurer (for old lumber sold) and receipted for to the amount of $10 00

PUBLIC WORKS OFFICE.

Bills approved from April 1 to June 30, 1896, inclusive, for account of the Public Works Office, amounted to $4,831,06

Charged as follows:

Salaries of commissioner and secretary	$1,925 00	
Salaries of office assistants	2,821 91	
Office supplies	84 15	
	$4,831 06	

ROBERT E. SMITH,

Commissioner.

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REPORT OF THE EXPERT ACCOUNTANT,

GEORGE S. CHASE,

UPON

Examination of the Books and Accounts

OF THE

CITY TREASURER.

[PRESENTED SEPTEMBER 14, 1896.]



REMINGTON PRINTING CO., CITY PRINTERS,
63 Washington Street.
1896.

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To the Honorable the City Council of the City of Providence:

Gentlemen: The Joint Standing Committee on Finance beg to herewith submit the report of George S. Chase, Expert Accountant, employed to examine the books and accounts of the City Treasurer for the year ending September 30, 1895.

I am,

Very respectfully yours,

Gilbert A. Phillips,

Chairman Finance Committee.

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PROVIDENCE, R. I., May 1, 1896.

MESSRS. GILBERT A. PHILLIPS,
ALBERT L. ANTHONY,
JOSEPH H. KENDRICK,
HOWARD O. STURGES,
CHARLES C. NICHOLS,

Finance Committee of the City of Providence.

GENTLEMEN: I have, at your request, made a careful examination of the books and accounts of the Treasurer's Department for the year ending September 30, 1895, and I beg leave to submit the following

REPORT.

On the 23d day of March 1896, at the close of the day's business I counted all the cash and cash items in the office of the treasurer at the city hall. At the same time, at my request, the different banks at which the funds of the city were deposited, wrote up the city's accounts and furnished me certified statements of the balances on hand, which statements you will find on page 10 of this report. On the next day (March 24th) I verified these bank accounts from October 1, 1894 down to date. In the course of this examination, which covered not only the general cash but also the special cash, the sinking fund, and the Dexter Asylum fund, I compared each daily deposit, as entered by the bank tellers on the deposit books, with the collections of that day as per the treasurer's cash book; thereby proving that all moneys received were promptly deposited and that there was no mixing or kiting of the various funds. In addition to the certificates mentioned above I find on file in the treasurer's office similar certificates dated October 22, 1895, which agree with the books of that date.

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INCOME.

I do not think it necessary to repeat here the list of sources of income as given in the treasurer's report. In a few cases I was not able to reach the original entries, but was obliged to content myself with the sworn statements on file at the treasurer's office. In all cases where the original books are kept at the city hall I have compared them with the monthly statements on file at the auditor's office and with the treasurer's cash. Finally in these, as in all other cases, I have followed the entries through the cash books into the ledger in order to satisfy myself that each source of income has received its proper credit.

In the following cases my examination has taken a special form in consequence, partly of the character of the income itself, and partly because in these if anywhere there lies the possibility of embezzlement by the clerks through whose hands the money passes.

Poll Taxes. The total number of names on the poll tax book is 21,509.

At one dollar each this would amount to . .		$21,509 00
Deduct for		
611 names crossed off . . .	$611.00	
No. 1,107 (36c. only) . . .	.64	
No. 8,245 (4c. only) . . .	.96	
No. 17,202 (68c. only) . . .	.32	
		612.92
Face value of poll tax book . .		$20,896.08

(By an error in addition page 397 this was made to appear $1.00 larger.)

The number of poll taxes paid was 8,929, amounting to $8,927.40, which agrees with the treasurer's cash, and the number of bills unpaid is 12,580. This I have verified by a careful and systematic comparison of the bills on hand with the unpaid names on the poll tax book.

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City Tax.

Total tax as per tax book .		$2,725,236.01
Total collections as per treasurer's ledger . . .	$2,694,931.08	
Less interest	9,039.84	
Balance applicable to tax .	$2,685,891.24	
Sundry abatements . .	16,094.43	
		$2,701,985.67
Balance uncollected.		
City of Providence . .		
Street assessments . .	110.95	
Real estate taxes face value	4,636.00	
Personal property taxes face value . . .	18,503,39	
		$23,250.34

Of the uncollected bills above I have carefully compared the tax bills on hand with the unpaid names on the list and all are accounted for.

City Licenses. I found a slight difference between the number of licenses as issued by the City Clerk and the amount of money credited on this account by the treasurer. Owing to the admirable manner in which the license records are kept at the City Clerk's office I had no difficulty in locating this difference, which was due to certain parties who paid the treasurer but who failed to take out their license from the clerk. As these were in all cases renewals, and as six months later each took out a new license in proper form, there was no need of pursuing the matter further.

Dog Licenses. Owing to the different system at the office where the dog licenses are issued, I was unable to locate a similar difference between this office and the treasury. In this case also, the cash received was a little more than the amount called for by the record of licenses issued.

Water Rents. In verifying the receipts from water rents and other branches of the Department of Public Works I have compared the books of the two offices and find them in complete agreement.

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Sewer Assessments. As before, I find it impossible to verify to my own satisfaction the receipts on this account, but I am advised by the treasurer of a plan which has been devised and which he intends soon to carry out, by which he thinks it will be possible to prove at any time the face value of the unpaid assessments.

Rents. I have compared the cash received with the amounts credited to the city's tenants in the rent book and I find them in agreement.

Dexter Donation. Although the Dexter Donation Fund does not appear as a part of the treasury cash, yet, as the City Treasurer is *ex-officio* treasurer of this fund I have examined that account also. I find that all rents have been promptly collected and all income promptly accounted for.

In General. In all other cases, as well as in those specified above, I have endeavored not only to verify the cash entry by the original voucher, but as far as was possible to satisfy myself that the cash received by the treasurer was the full amount which the city was entitled to receive.

OUTLAYS.

Total Payments. The treasurer in his report (City Document No. 2, Pages 314 to 324) charges the city with cash paid amounting to $9,424,770.73 divided as follows:

Commissioners of Sinking Funds . . .		$1,790,264.98
Interest on		
(a) Temporary Loans. .	$103,216.36	
(b) Funded Debt . .	628,510.06	
		$731,726.42
Loans Paid.		
(a) Notes 48 E and 51 E .	$40,000.00	
(b) Other Notes . .	2,567,384.27	
		$2,607,384.27
Sundry Payments		4,295,395.06
Total		$9,424,770.73

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The explanation and vouchers for the above are as follows:

Commissioners of Sinking Funds. For all the transactions covered by the entries on pages 320 and 322 of the treasurer's report I find in the auditor's hands the receipts of D. L. D. Granger as treasurer of the sinking funds. I have also compared item by item, the corresponding entries in the sinking fund books, including the bank deposit books, and I find them in agreement. The various appropriations for the redemption of bonds are as stated, they are properly credited to their respective accounts, and the balances of the several funds verify the statements in the auditor's report page 13.

C. H. & S. Loan Due 1895. For the payment of the city hall and sewer bonds, due July 1, 1895, I find the receipts of Morton, Bliss & Co., of New York, as agents for Morton, Rose & Co., of London, for the full amount necessary to take up the bond. And I also find in the auditor's hands all the bonds themselves except ten (10), numbered 1338 to 1347 inclusive, which have not yet been presented for redemption.

On referring to the sinking fund books I found that no coupon of these ten bonds has been presented for payment since January, 1890. It seems to me therefore reasonable to suppose that these ten bonds, together with five years' coupons, the whole amounting to £1,250 (say $6,000.) have been destroyed, and I respectfully suggest that some action be taken toward covering back into the treasury of the city the money now held by Morton, Rose & Co. on this account.

Premium on New Loans. The premiums of the $300,000 school loan and the $800,000 sewer loan, both negotiated during the year, amounting to $153,472.00 were covered as soon as received into the sinking fund.

Water Rents. I have carefully compared the water rents with the cost of water maintenance during the year and I find that the excess of income over expenses is correctly stated at $56,267.18, and that this amount has been covered into the

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sinking fund as required by law. The vouchers being the receipt of the treasurer of the sinking fund and the books of the sinking fund commissioners.

Interest. All the temporary loans made during the year were from the sinking funds, and the interest on (a) these loans, amounting to $103,216.36, has been paid into the sinking funds, which fact I have verified in the same way as the above. For the interest on (b) the funded debt I find as vouchers the personal receipts of the holders (or of their attorneys) of the registered bonds. For the coupon interest I find the monthly statements of the National City Bank of New York and the National Revere Bank of Boston, which agree with the treasurer's cash and check books, as also the checks themselves. I have also carefully checked each loan to assure myself that all such interest has been promptly paid.

Loans Paid. (a) The two notes 48 E and 51 E, amounting to $40,000 in all, have been paid off and the money covered into the sinking fund.

(b) The other notes, amounting to $2,567,384.27, have been renewed, proper authority having been given by the City Council.

The retired notes, properly cancelled, are on file in the auditor's office.

Sundry Payments.

(a)	State of Rhode Island	$ 353,874.16
(b)	North Burial Ground Sinking Fund, .	302.22
(c)	Audits 613 to 626 inclusive . . .	3,941,218.68
	Total	$4,295,395.06

(a) State of Rhode Island. This is the proportionate share of the state in the various taxes collected by the city and for which there are on file in the auditor's office the receipts of the state treasurer.

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(b) North Burial Ground Sinking Fund. This is the 5c. per square foot on the lots sold during the year, viz.: 6044½ feet at 5c., $302.22. The receipts of D. L. D. Granger as treasurer of the North Burial Ground Sinking Fund for this amount are on file at the auditor's office.

(c) Audits 613 to 626 inclusive $3,941,218.68. These are sundry bills and pay rolls approved by the City Auditor, passed in committee on accounts and ordered to be paid by the mayor. As vouchers for these I find at the treasurer's office mayor's orders and auditor's drafts which, combined, amount to this sum, and I also find the autograph receipts of all the payees or their attorneys; except that for the regular city pay rolls the treasurer holds the receipts of the paymasters or attorneys authorized to receive and distribute the money. The pay rolls themselves are on file at the auditor's office. I have carefully examined each of these pay rolls and I find upon them the acknowledgement of payment by each employee of the receipt of the money due him or her, with the exception of forty (40) persons who, for causes unknown to me, have not yet received their pay. And for these 40 I find in the hands of the treasurer the original pay envelopes containing the money, awaiting the demand of the rightful owner.

Certificate of Examiner. I have, therefore, in the various ways specified above, verified the statement of the treasurer of the moneys paid out by him, amounting as stated by him to $9,424,770.73, and I hereby certify that for this amount I have found full and satisfactory vouchers.

Respectfully submitted,

GEORGE S. CHASE,

Special Examiner.

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P. S. I find that I have neglected to speak specifically of my examination of the sinking funds. I have given these funds careful attention in all their details and am sure not only that all moneys are properly accounted for, but also that each fund has received all the additions to which it is legally entitled.

GEORGE S. CHASE.

RHODE ISLAND HOSPITAL TRUST COMPANY.

No. 15 Westminster Street.

PROVIDENCE, R. I., March 23, 1896.

Our books at the close of business this day show a balance of $396,-618.62 due you.

W. A. GAMMELL, *Assistant Secretary.*

To the CITY OF PROVIDENCE.

O. K. George S. Chase, Examiner

RHODE ISLAND HOSPITAL TRUST COMPANY.

No. 15 Westminster Street.

PROVIDENCE, R. I., March 23, 1896.

Our books at the close of business this day show a balance of $2,811.53 due you

W. A. GAMMELL, *Assistant Secretary.*

To the CITY OF PROVIDENCE, Commissioners of Sinking Funds.

O. K. George S. Chase, Examiner.

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MERCHANTS NATIONAL BANK

DIRECTORS' EXAMINATION

Providence, R. I., March 23, 1896.

CITY OF PROVIDENCE:

Our books at the close of business this day show a balance of $396,618.62 due you.

Yours respectfully,

J. W. VERNON, *Cashier.*

O. K. George S. Chase, Examiner.

MERCHANTS NATIONAL BANK

DIRECTORS' EXAMINATION

Providence, R. I., March 23, 1896.

CITY OF PROVIDENCE, Commissioners of Sinking Funds:

Our books at the close of business this day show a balance of $2,811.53 due you.

Yours respectfully,

J. W. VERNON, *Cashier.*

O. K. George S. Chase, Examiner.

INDUSTRIAL TRUST COMPANY.

CAPITAL $1,000,000.

PROVIDENCE, R. I., March 24, 1896.

D. L. D. GRANGER, ESQ., City Treasurer,
PROVIDENCE, R. I.

DEAR SIR:

We beg to advise you that the balances due the City of Providence as shown by the books of the Industrial Trust Co., at the close of business March 23, were as follows:

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City of Providence	General Account . . .	$381,657.40	*See below.*
" "	Special Account . . .	325.02	" "
" "	Commissioners of Sinking Fund	660.67	*O. K.*
" "	Dexter Donation Fund .	8,542.92	*O. K.*

Yours very truly,

CYRUS P. BROWN, *Treasurer.*

General Account.

Balance as above		$381,657.40
Checks afloat.		
No. 4957 . . .	$329.11	
No. 4961 . . .	969.02	$1,298.13
Balance Check Book . . .		380,359.27

Special Account.

Balance as above		$325.02
Checks afloat.		
No. 434 . . .	$7.24	
No. 435 . . .	5.41	$12.65
Balance Check Book		312.37

GEORGE S. CHASE, *Examiner.*

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REPORT

OF THE COMMISSIONERS OF ESTIMATE AND ASSESSMENT

UPON THE

LAYOUT AND EXTENSION

OF

HANNAH STREET,

FROM AMSTERDAM STREET TO ATWELL'S AVENUE.



REMINGTON PRINTING CO., CITY PRINTERS,
63 Washington Street.
1896.

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REPORT.

To the Honorable the Common Pleas Division of the Supreme Court, now holden within and for the County of Providence, A. D. 1896.

The undersigned appointed (the decree entered at the September Term, A. D. 1895), Commissioners of Estimate and Assessment under and according to an Act of the General Assembly, entitled "An act in relation to the laying out, straightening and otherwise altering streets in the city of Providence."

Upon application of the City Council of the City of Providence representing that it is desirable and necessary to lay out and extend Hannah street from Amsterdam street to Atwell's avenue as a public highway in accordance with the plans of the City Engineer, of said Providence, attached to a resolution of said City Council, No. 569, passed December 20th, 1895. In relation to said Hannah street respectfully report:

That said commissioners having been first severally engaged to the faithful performance of the trust and duties required of them, under their commission, by the act of the General Assembly, entitled "An act in relation to the laying out, enlarging, straightening and otherwise altering streets in the City of Providence," as is duly certified on their commission, they, on the 21st day of February, 1896, proceeded to the place of such lay out and extension, and after viewing the premises required for the same, caused a survey and plat to be made thereof, and of the estates, which in their judgement, are especially interested in said lay out and extension, which plat is herewith returned and made a part of this report.

That subsequently they cause notice to be given to all persons interested in said lands, tenements, hereditaments

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and premises required for the said laying out and extension and to all persons who, and owners of land, tenements, hereditaments and premises which are, in the opinion of said commissioners, benefited thereby, of the time and place of making an estimate of the value of the property so required, and of the benefits conferred by publishing when and where such estimate and assessments were to be made during the space of three weeks, in the *Providence Daily Journal* and *Providence Evening News*, two of the newspapers printed in said Providence. A copy of which published notice is hereto annexed, marked "A."

That pursuant to such notice they met at the time and place therein named, and at said meeting and the several adjournments thereof, all persons interested had full opportunity to be heard in relation to said laying out and extension, and after hearing all parties who appeared and desired to be heard they proceeded to make the estimate and assessment of loss and damage, and of benefit and advantage as required of them by said act, and their said commission as follows:

In order to lay out said Hannah street, from Amsterdam street to Atwell's avenue, as proposed by the said City Council as aforesaid, and as delineated on the plat above referred to, it will be necessary to take from the following lots numbered on said plat, to correspond with the numbers of the same lots on assessor's plat 63, the number of square feet set opposite said lots below, that is to say:—

	Square feet.
From lot 162, on plat 63, belonging to John Bannigan and wife, Mary, Phillip M. Carpenter and George C. Noyes, Trustees of Ebenezer Carpenter, mortgagee, plat 63.....	2,844
From 391, Hanora Kiggan, wife of James, mortgagee, Stephen B. Olney, North Providence.....	2,841

And the undersigned furthur report that the total excess of loss and damage over and above the benefit and advantage of the estates aforesaid, is the sum of $3,987.00.

And the undersigned further estimate, assess and report the excess and surplus of benefit and advantage over and above the loss and damage resulting to the owners.

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And the undersigned estimate and report the loss and damage to the owners and parties interested in said estates, by reason of said laying out and extension of said Hannah street, over and above all advantages therefrom accruing to them respectively as such owners and parties interested, as follows:

To Hanora Kiggan, Stephen B. Olney, mortgagee, lot 161, plat 63	$2,355 00
To John Bannigan, Philip M. Carpenter and Gerge C. Noyes, trustees, assignees of the mortgaged lot 162, plat 63	1,632 00

And the undersigned further report, that the total excess of loss and damage over and above the benefit and advantage to the estates aforesaid, is the sum of thirty-nine hundred and eighty-seven ($3,987.00) dollars.

And the undersigned further estimate and assess, and report the assess and surplus of benefit and advantage over and above the loss and damage resulting to the owners and parties interested respectfully in such of the estates hereinafter enumerated as are required for such lay out and extension; also the value of the benefit of such laying out and extension, to the owners, lessees, parties and persons respectively interested in the estates hereinafter enumerated which are not required as aforesaid, but which, in the opinion the undersigned, are benefited thereby, in respects to the said lands, tenements, hereditaments and premises to the several amounts set opposite to, and assessed upon said estates, and the names of said persons and parties respectively.

And the undersigned further report, that in accordance with the directions in the commission issued to them, they have apportioned and assessed three fourths (3-4) of said loss and damage estimated as aforesaid, at the sum of thirty-nine hundred and eighty-seven ($3,987.00) dollars, being the sum of twenty-nine hundred and ninety ($2,990.00) dollars, in the ratio of the benefit conferred by such laying out and extension, and due apportion and assess the same to the following persons in the amounts and for the estates designated, that is to say:—

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To William Adamson and wife Drucilla, lot 361, plat 63, eight dollars	$8 00
To Atlantic Mills (a corporation), lot 406, plat 63, seven dollars	7 00
To James Aldred, lot 47, plat 63, eight dollars	8 00
To James Aldred, lot 49, plat 63, eight dollars	8 00
To Bridget Armstrong, lot 94, plat 63, twelve dollars	12 00
To Thomas Berth and wife Bridget, lot 431, plat 63, six dollars	6 00
To Michael Bowen, lot 84, plat 63, twenty-four dollars	24 00
To Thomas Brennan, lot 263, plat 63, five dollars	5 00
To the Citizens' Savings Bank, lot 92, plat 63, twelve dollars	12 00
To the City of Providence, lot 60, plat 63, sixteen dollars	16 00
To the City of Providence, lot 142, plat 63, twenty dollars	20 00
To Thomas Carmody, lot 111, plat 63, Atlantic Mills, mortgagee, sixteen dollars	16 00
To Robert Cameron, lot 135, plat 63, eight dollars	8 00
To Eliza Costello, wife of Andrew J., lot 136, plat 63, eight dollars	8 00
To William F. Connors, lot 150, plat 63, five dollars	5 00
To Ellen Connaughton, widow of Timothy, lot 101, plat 63, sixteen dollars	16 00
To Mary Croughan, lot 100, plat 63, sixteen dollars	16 00
To John Croughan, lot 99, plat 63, sixteen dollars	16 00
To Ellen Casey, wife of John, lot 274, plat 63, five dollars	5 00
To Charles Clegg, lot 308, plat 63, Citizens' Saving Bank, mortgagee, seven dollars	7 00
To Edward Charlton estate, lot 309, plat 63, seven dollars	7 00
To Bridget Cunningham (Johnston), lot 310, plat 63, seven dollars	7 00
To Mary E. Casey, wife of John, Jr., lot 297, plat 63, eight dollars	8 00
To Mary E. Casey, wife of John, Jr., lot 298, plat 63, seven dollars	7 00
To Cornelius Carmody, Jr., and wife Louise M., lot 295, plat 63, seven dollars	7 00
To Cornelius Carmody, Jr., and wife Louise M., lot 294, plat 63, eight dollars	8 00
To Rose F. Cauden, wife of Thomas, lot 285, plat 63, six dollars	6 00
To Rose F. Cauden, wife of Thomas, lot 286, plat 63, five dollars	5 00
To William F. and Stephen Condon, lot 407, plat 63, as their interest may appear, six dollars	6 00
Amount carried forward	$278 00

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Amount brought forward	$278 00
To William F. and Stephen Condon, lot 407, plat 63, as their interest may appear, six dollars	6 00
To Catherine Clark, lot 262, plat 63, five dollars	5 00
To John Doonan and wife Ellen, lot 78, plat 63, twenty-four dollars	24 00
To Catherine Degnan, wife of John, lot 62, plat 63, nine dollars	9 00
To Michael J. Degnan, lot 396, plat 63, six dollars	6 00
To Peter Donnelly, lot 129, plat 63, Catherine McNally, mortgagee, twelve dollars	12 00
To Peter Donnelly, lot 130, plat 63, Catherine McNamara, mortgagee, twelve dollars	12 00
To Peter Donnelly, lot 149, plat 63, Catherine McNamara, mortgagee, ten dollars	10 00
To Peter Donnelly, lot 148, plat 63, Catherine McNamara, mortgagee, nine dollars	9 00
To Luke Doyle, lot 98, plat 63, sixteen dollars	16 00
To Bridget Doyle, lot 97, plat 63, fifteen dollars	15 00
To James Dunne, lot 301, plat 63, nine dollars	9 00
To James Dunne and wife Martha C., lot 300, plat 63, eight dollars	8 00
To Martin J. Dempsey, lot 265, plat 63, five dollars	5 00
To John Fowler and wife Ellen, lot 154, plat 63, five dollars	5 00
To Caroline M. Farnum, wife of H. S., (Glocester), lot 65, plat 63, eight dollars	8 00
To Timothy Feeley and wife Mary E., lot 63, plat 63, ten dollars	10 00
To Timothy Feeley, lot 69, plat 63, twelve dollars	12 00
To Mary S. Farnum, wife of C. M., (Glocester), lot 90, plat 63, sixteen dollars	16 00
To Mary Fox, widow of Lawrence, lot 271, plat 63, five dollars	5 00
To Mary Fox, widow of Lawrence, lot 272, plat 63, five dollars	5 00
To Thomas Fish and wife Jane, lot 289, plat 63, fourteen dollars	14 00
To Mary C. Fitzpatrick, wife of James F., lot 358, plat 63, six dollars	6 00
To Andrew Flynn and wife Mary, lot 362, plat 63, eight dollars	8 00
To William Frazer and wife Agnes, lot 398, plat 63, five dollars	5 00
To William Frazer and wife Agnes, lot 399, plat 63, five dollars	5 00
Amount carried forward	$523 00

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Amount brought forward	$523 00
To Mary Fox, widow of Lawrence, lot 173, plat 63, five dollars	5 00
To Mary Fox, widow of Lawrence, lot 179, plat 63, five dollars	5 00
To Michael Foley and wife Catherine, lot 177, plat 63, five dollars	5 00
To Martin Feeney and wife Catherine, lot 261, plat 63, five dollars	5 00
To Annie Gorman, widow, lot 153, plat 63, five dollars	5 00
To Sarah L. Gill, widow (Johnston), lot 303, plat 63, Lydia A. Gill, Pawtucket, assignee of mortgagee, thirteen dollars	13 00
To Sarah L. Gill, widow (Johnston), lot 304, plat 63, Lydia A. Gill, Pawtucket, assignee of mortgagee, fourteen dollars	14 00
To Owen Gartland and wife Catherine, lot 105, plat 63, Rhode Island Hospital Trust Company, mortgagee, twenty-four dollars	24 00
To Owen Gartland and wife Catherine, lot 106, plat 63, Rhode Island Hospital Trust Company, mortgagee, twenty-four dollars	24 00
To Ellen Gibbons, lot 147, plat 63, seven dollars	7 00
To Ellen Gleason, lot 66, plat 63, eight dollars	8 00
To Ellen Gleason, lot 67, plat 63, twelve dollars	12 00
To John Gibbons, lot 171, plat 63, ten dollars	10 00
To James Galloway and wife Frances, lot 277, plat 63, eleven dollars	11 00
To Catherine Gray, widow of David, lot 180, plat 63, five dollars	5 00
To Alfred Hanson and wife Margaret, lot 160, plat 63, Merchants Bank, mortgagee, fifty dollars	50 00
To Alfred Hanson and wife Margaret, lot 159, plat 63, Merchants Bank, mortgagee, thirty-eight dollars	38 00
To Margaret Hamill, Phœbe Hamill life interest, lot 75, plat 63, sixteen dollars	16 00
To Margaret Hamill, Phœbe Hamill life interest, lot 317, plat 63, five dollars	5 00
To Margaret Hamill, Phœbe Hamill life interest, lot 318, plat 63, five dollars	5 00
To Margaret Hamill, Phœbe Hamill life interest, lot 310, plat 63, seven dollars	7 00
To Margaret Hamill, Phœbe Hamill life interest, lot 314, plat 63, seven dollars	7 00
Amount carried forward	$804 00

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Amount brought forward	$804 00
To Margaret Hamill, Phœbe Hamill life interest, lot 313, plat 63, eight dollars	8 00
To Phœbe Hamill, widow, lot 315, plat 63, B. A. Smith, mortgagee, eight dollars	8 00
To Lawrence A. Hart, lot 57, plat 63, seven dollars	7 00
To Abraham Hiley, lot 120, plat 63, fourteen dollars	14 00
To Abraham Hiley, lot 287, plat 63, seven dollars	7 00
To Abraham Hiley, lot 288, plat 63, fourteen dollars	14 00
To Emma Hanson, wife of Frank (Johnston), lot 134, plat 63, eight dollars	8 00
To William Heaton (Johnston), lot 109, plat 63, twenty-four dollars	24 00
To Edward Hines, lot 269, plat 63, six dollars	6 00
To Thomas Hurley $^1_2$, Mary, wife of Thomas, $^1_2$, lot 270, plat 63, six dollars	6 00
To James Hooley, lot 273, plat 63, five dollars	5 00
To William Hodgson and wife Jane, lot 280, plat 63, Moses B. Goddard and George W. R. Matteson, trustees of mortgagees, seven dollars	7 00
To William Hodgson and wife Jane, lot 281, plat 63, Moses B. Goddard and George W. R. Matteson, trustees of mortgagees, six dollars	6 00
To William Hodgson and wife Jane, lot 282, plat 63, Moses B. Goddard and George W. R. Matteson, trustees of mortgagees, six dollars	6 00
To Edward M. Harris, lot 292, plat 63, John Casey, mortgagee, ten dollars	10 00
To Michael Hayden and wife Catherine, lot 293, plat 63, John Casey, mortgagee, eight dollars	8 00
To Timothy Hughes and wife Bridget, lot 350, plat 63, eight dollars	8 00
To Bridget Higgins, widow, lot 264, plat 63, five dollars	5 00
To Patrick, Jennie, John, Alice, Catherine, Mary, Margaret and Ellen Harrison of Providence, Winifred Carmody of Providence, Bridget Doherty and Julia Harrison of Johnston, lot 408, plat 63, five dollars	5 00
To Edward Hines, lot 266, plat 63, five dollars	5 00
To John F. Harlow, Johnston, Atlantic Mills, mortgagee, lot 397, plat 63, five dollars	5 00
To Alfred Hough and wife Sarah A., lot 259, plat 63, Oscar J. Morse, North Smithfield, mortgagee, three dollars	3 00
To Alfred Hough and wife Sarah A., lot 258, plat 63, Oscar J. Morse, North Smithfield, mortgagee, three dollars	3 00
Amount carried forward	$982 00

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Amount brought forward	$982 00
To Edwin A. Johnston, Josephine G. Greene, widow, of Warwick, and Elizabeth C. Johnston, widow, life interest, lot 163, plat 63, fifty dollars	50 00
To Edwin A. Johnston, Josephine G. Greene, widow, of Warwick, and Elizabeth C. Johnston, widow, life interest, lot 164, plat 63, thirty-seven dollars	37 00
To Thomas Jackson, lot 267, plat 63, five dollars	5 00
To Thomas Jackson, lot 268, plat 63, five dollars	5 00
To John Kelly and wife Anne, lot 51, plat 63 eight dollars	8 00
To Mary A. Kerwin, lot 165, plat 63, W. H. Covill, mortgagee, twenty-five dollars	25 00
To William F. King ½, Alice Porter ¼, and Emma A. Hawkins ¼, or as their interest may appear, lot 359, plat 63, eight dollars	8 00
To William F. King ½, Alice Porter ¼, and Emma A. Hawkins ¼, or as their interest may appear, lot 368, plat 63, ten dollars	10 00
To William F. King ½, Alice Porter ¼, and Emma A. Hawkins ¼, or as their interest may appear, lot 369, plat 63, eight dollars	8 00
To William F. King ½, Alice Porter ¼, and Emma A. Hawkins ¼, or as their interest may appear, lot 341, plat 63, five dollars	5 00
To William F. King ½, Alice Porter ¼, and Emma A. Hawkins ¼, or as their interest may appear, lot 349, plat 63, eight dollars	8 00
To William F. King ½, Alice Porter ¼, and Emma A. Hawkins ¼, or as their interest may appear, lot 354, plat 63, five dollars	5 00
To William F. King ½, Alice Porter ¼, and Emma A. Hawkins ¼, or as their interest may appear, lot 355, plat 63, five dollars	5 00
To William F. King ½, Alice Porter ¼, and Emma A. Hawkins ¼, or as their interest may appear, lot 365, plat 63, eight dollars	8 00
To William F. King ½, Alice Porter ¼, and Emma A. Hawkins ¼, or as their interest may appear, lot 432, plat 63, three dollars	3 00
To Patrick Kerwin and wife Maria, lot 104, plat 63, seven dollars	7 00
To Patrick Kerwin and wife Maria, lot 390, plat 63, fourteen dollars	14 00
To Mary Kilduff, lot 110, plat 63, Charles M. Addison, Fitchburg, Massachusetts, mortgagee, twenty-four dollars	24 00
Amount carried forward	$1,217 00

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Amount brought forward	$1,217 00
To Patrick King, lot 320, plat 63, seven dollars	7 00
To Patrick King, lot 321, plat 63, five dollars	5 00
To William Kennedy and wife, Sarah M., lot 405, plat 63, six dollars	6 00
To Ruth Lawson, wife of Thomas, lot 146, plat 63, seven dollars	7 00
To Catherine Lally, lot 152, plat 63, William Bishop of Warren, R. I., mortgagee, five dollars	5 00
To David Lally, lot 151, plat 63, five dollars	5 00
To Catherine Logan $\frac{1}{3}$, Anne M. $\frac{1}{3}$, Charles J. $\frac{1}{3}$, lot 299, plat 63, eight dollars	8 00
To Catherine Logan, lot 400, plat 63, six dollars	6 00
To Elizabeth Lucas, widow, lot 174, plat 63, five dollars	5 00
To Richard Landy and wife Margaret, lot 107, plat 63, twenty-four dollars	24 00
To Richard Landy and wife Margaret, lot 108, plat 63, twenty-four dollars	24 00
To Bridget McAlister, lot 290, plat 63, fourteen dollars	14 00
To Bridget McAlister, lot 291, plat 63, twelve dollars	12 00
To Margaret McCabe, lot 401, plat 63, five dollars	5 00
To Mary McCarthy, wife of John, lot 79, plat 63, Anne M. Clarke, assignee of mortgagee, thirty dollars	30 00
To Mary McCarthy, wife of John, lot 80, plat 63, Anne M. Clarke, assignee of mortgagee, thirty dollars	30 00
To Mary McCarthy, wife of John, lot 81, plat 63, Anne M. Clarke, assignee of mortgagee, thirty-one dollars	31 00
To Mary McCarthy, wife of John, lot 82, plat 63, Anne M. Clarke, assignee of mortgagee, thirty dollars	30 00
To Mary McCarthy, wife of John, lot 83, plat 63, Anne M. Clarke, assignee of mortgagee, thirty-two dollars	32 00
To Patrick F. McCormick, lot 322, plat 63, seven dollars	7 00
To John McCormick, lot 157, plat 63, William F. Stacey, Taunton, mortgagee, twenty dollars	20 00
To Neil McCarney, lot 88, plat 63, Robert Harris, Pomfret, Connecticut, mortgagee, sixteen dollars	16 00
To Neil McCarney, lot 89, plat 63, Robert Harris, Pomfret, Connecticut, mortgagee, sixteen dollars	16 00
To John McElroy, lot 275, plat 63, Carrie Olney, North Providence, mortgagee, five dollars	5 00
To John McElroy, lot 276, plat 63, Carrie Olney, North Providence, mortgagee, five dollars	5 00
To Annie McGirr, wife of Owen, lot 128, plat 63, sixteen dollars	16 00
Amount carried forward	$1,588 00

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Amount brought forward	$1,588 00
To Anne McKenna, lot 305, plat 63, Eliza N. Foster of New York City, mortgagee, twelve dollars	12 00
To Anne McKenna, lot 306, plat 63, Eliza N. Foster of New York City, mortgagee, nine dollars	9 00
To Patrick McKenna, lot 307, plat 63, seven dollars	7 00
To Patrick McKenna, lot 316, plat 63, eight dollars	8 00
To Owen McMahon, lot 181, plat 63, five dollars	5 00
To Owen McMahon, lot 182, plat 63, five dollars	5 00
To Thomas McMann and wife Catherine (joint tenants), lot 91, plat 63, Smithfield Savings Bank, mortgagee, twelve dollars	12 00
To John McNamara and wife Ellen, lot 176, plat 63, John Casey and Company, mortgagees, five dollars	5 00
To Arthur McSoley, lot 115, plat 63, Citizens' Savings Bank, mortgagee, sixteen dollars	16 00
To Arthur McSoley, lot 116, plat 63, Citizens' Savings Bank, mortgagee, fifteen dollars	15 00
To James Murray and wife Catherine, lot 70, plat 63, Providence Institution for Savings, mortgagee, twelve dollars	12 00
To James Murray and wife Catherine, lot 71, plat 63, Providence Institution for Savings, mortgagee, twelve dollars	12 00
To James Murray and wife Catherine, lot 72, plat 63, Providence Institution for Savings, mortgagee, sixteen dollars	16 00
To Mary Morris, widow of Austin, lot 50, plat 63, eight dollars	8 00
To John Maher and wife Margaret, lot 161, plat 63, Thomas W. Angell, mortgagee, forty dollars	40 00
To John J. Mulleda and wife Catherine, lot 156, plat 53, nine dollars	9 00
To Mary Anne Murphy, lot 85, plat 63, twenty-four dollars	24 00
To James and Julia Manning, lot 112, plat 63, Ellen J. Inman, guardian, mortgagee, sixteen dollars	16 00
To Thomas Melleney, lot 125, plat 63, William A. Phillips, Johnston, mortgagee, ten dollars	10 00
To Thomas Melleney and wife Winifred, lot 126, plat 63, nine dollars	9 00
To James Martin, lot 131, plat 63, Smithfield Savings Bank, mortgagee, ten dollars	10 00
To James Martin, lot 133, plat 63, Smithfield Savings Bank, mortgagee, twelve dollars	12 00
Amount carried forward	$1,860 00

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Amount brought forward	$1,860 00
To Bridget Mansel, lot 96, plat 63, eleven dollars	11 00
To Susan Mansel, widow of Martin, lot 95, plat 63, ten dollars	10 00
To Patrick Mullagin, lot 93, plat 63, twelve dollars	12 00
To Edward Martin, lot 56, plat 63, eight dollars	8 00
To James Murphy and wife Bridget, lot 87, plat 63, sixteen dollars	16 00
To Jeremiah Mainey, lot 278, plat 63, Roger Williams Savings Fund and Loan Association, seven dollars	7 00
To Jeremiah Mainey, lot 279, plat 63, Roger Williams Savings Fund and Loan Association, seven dollars	7 00
Ty James and Mary Moan, lot 311, plat 63, seven dollars.	7 00
To Delia Neelan, lot 113, plat 63, Carrie Olney, North Providence, mortgagee, sixteen dollars	16 00
To Joseph Newman (Johnston), lot 54, plat 63, eight dollars	8 00
To Joseph Newman (Johnston), lot 55, plat 63, eight dollars	8 00
To Judah Naylor, lot 296, plat 63, eight dollars	8 00
To Anne O'Connor, wife of John, lot 127, plat 63, eight dollars	8 00
To John O'Donnell and wife Fannie, lot 175, plat 63, five dollars	5 00
To Farrell O'Reilly, lot 360, plat 63, William H. Herrick, assignee of mortgagee, nine dollars	9 00
To Farrell O'Reilly, lot 403, plat 63, Atlantic Mills, mortgagee, six dollars	6 00
To Farrell O'Reilly, lot 404, plat 63, Atlantic Mills, mortgagee, six dollars	6 00
To Farrell O'Reilly, lot 409, plat 63, Atlantic Mills, mortgagee, five dollars	5 00
To Farrell O'Reilly, lot 410, plat 63, Atlantic Mills, mortgagee, five dollars	5 00
To Michael Oslin, lot 137, plat 63, eight dollars	8 00
To Michael Oslin, lot 138, plat 63, eight dollars	8 00
To Michael Oslin, lot 139, plat 63, eight dollars	8 00
To Henry Paget and wife Mary A., lot 158, plat 63, Edward W. Olney, Johnston, mortgagee, twenty-three dollars	23 00
To William Paisley, Jr., lot 48, plat 63, eight dollars	8 00
To Sandy V. Pickles, lot 114, plat 63, City Savings Bank, mortgagee, fourteen dollars	14 00
To Sandy V. Pickles, lot 119, plat 63, City Savings Bank, mortgagee, ten dollars	10 00
To Luther N. Pickles, lot 117, plat 63, twelve dollars	12 00
Amount carried forward	$2,113 00

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Amount brought forward	$2,113 00
To Luther N. Pickles, lot 118, plat 63, twelve dollars	12 00
To John Quinn, lot 76, plat 63, sixteen dollars	16 00
To Anne Reed, widow, lot 77, plat 63, twenty-four dollars	24 00
To Robert and Thomas Ray, as their interest may appear, lot 260, plat 63, five dollars	5 00
To Walter F. Riley and wife Emma J., lot 166, plat 63, twenty-nine dollars	29 00
To Patrick Rogers, lot 86, plat 63, twenty-four dollars	24 00
To Elizabeth and Mary Ryan, lot 144, plat 63, John Ryan, mortgagee, seven dollars	7 00
To Michael F. Ryan, lot 103, plat 63, twenty-four dollars	24 00
To Michael Rowley, lot 302, plat 63, twelve dollars	12 00
To Owen Reilly, lot 357, plat 63, five dollars	5 00
To Jacob Smith, lot 52, plat 63, eight dollars	8 00
To Jacob Smith, lot 52, plat 63, eight dollars	8 00
To Daniel Sullivan and wife Mary A., lot 68, plat 63, twelve dollars	12 00
To Saint Teresa's Church (a corporation), lot 367, plat 63, City Savings Bank and Michael McCarthy, mortgagees, ten dollars	10 00
To Saint Teresa's Church (a corporation) lot 346, plat 63, City Savings Bank and Michael McCarthy, mortgagees, twenty dollars	20 00
To Saint Teresa's Church (a corporation) lot 347, plat 63, City Savings Bank and Michael McCarthy, mortgagees, eighteen dollars	18 00
To Saint Teresa's Church (a corporation) lot 363, plat 63, City Saving Bank and Michael McCarthy, mortgagees, ten dollars	10 00
To Job F. Steere, lot 64, plat 63, eight dollars	8 00
To Olivine Tetreault, lot 352, plat 63, five dollars	5 00
To Olivine Tetreault, lot 353, plat 63, five dollars	5 00
To Sarah Tierney wife of Bartholomew, lot 168, plat 63, Roger Williams Savings Fund and Loan Association, mortgagee, nine dollars	9 00
To Sarah J. Underwood, Mechanic's Savings Bank, mortgagee, lot 178, plat 63, five dollars	5 00
To Union Manufacturing Company, lot 413, plat 63, six dollars	6 00
To Union Manufacturing Company, lot 411, plat 63, five dollars	5 00
To Union Manufacturing Company, lot 412, plat 63, five dollars	5 00
To Union Manufacturing Company, lot 415, plat 63, five dollars	5 00
Amount carried forward	$2,410 00

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Amount brought forward	$2,410 00
To Union Manufacturing Company, lot 414, plat 63, five dollars	5 00
To George B. Underwood estate, Ethel C. Brownell, Hannah F. Underwood, widow, and Walter S. Brownell life interest, lot 155, plat 63, Charles Atwood trustee of mortgagee, five dollars	5 00
To George B. Underwood estate, Ethel C. Brownell, Hannah F. Underwood, widow, and Walter S. Brownell, life interest, lot 167, plat 63, Charles Atwood trustee of mortgagee, twelve dollars	12 00
To Thomas Walsh, lot 74, plat 63, Rodney F. Dyer, Jr., mortgagee, fourteen dollars	14 00
To Matthew J. Walsh, and wife Mary L., lot 145, plat 63, seven dollars	7 00
To Mary Williams, lot 102, plat 63, sixteen dollars	16 00
To Elizabeth W. Welch, lot 402, plat 63, five dollars	5 00
To Thomas Winn, lot 351, plat 63, William F. King, Johnston, Rhode Island, mortgagee, five dollars	5 00
To Michael Williams and wife Maria, lot 356, plat 63, five dollars	5 00
To Bridget Ward, wife of John, lot 73, plat 63, sixteen dollars	16 00
To Alexander Young, lot 284, plat 63, five dollars	5 00
To Alexander Young, lot 283, plat 63, five dollars	5 00
To Addie estate, Julia P. A. Anthony heir, three hundred and seventy six dollars	376 00
To Waterman estate, Caroline F. and John Waterman heirs, Susan J. Waterman, widow of John, life interest, one hundred and four dollars	104 00
Total	$2,990 00

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The plat made for the use of the undersigned accompanies this report.

The undersigned herewith return the commission issued to them by the Court.

All of which is respectfully submitted

CHARLES E. HARRIS,
THOMAS F. LEONARD,
GEORGE F. HOLROYD,
WILLIAM DUFFY,
THOMAS F. WEST.

Commissioners.

PROVIDENCE, R. I., November 18, 1896.

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"A"

LAYOUT AND EXTENSION OF HANNAH STREET.

The undersigned, appointed by the Honorable the Common Pleas Division of the Supreme Court, decree entered at the September Term, A. D. 1895, Commissioners of Estimate and Assessment, under and according to the provisions of the act of the General Assembly, entitled "An Act in relation to the laying out, enlarging, straightening and otherwise altering streets in the city of Providence," and the several acts in amendment thereof, and in addition thereto, upon application of the City Council of said city, representing that it is desirable and necessary to lay out and extend a certain street in said city of Providence, to wit, Hannah street, from Amsterdam street to Atwells avenue, in accordance with the resolution of the City Council, No. 568, passed December 20th, 1895, and that certain real estate will be required for that purpose, and requesting the appointment of Commissioners of Estimate and Assessments, under and according to said acts of the General Assembly, hereby give notice to all persons interested in their proceedings, under and by virtue of their said appointment, that they appoint the 8th day of June, 1896, at 3 P. M., at the City Hall, Room B, in said city of Providence, as the time and place of their meeting, to make the estimates required to be by them made, under and by virtue of their commission by said act.

And the undersigned further give notice that, according to their present opinion, the lands, tenements, hereditaments and premises situated within the following lines and boundaries are benefited within the intent and meaning of said act, by such laying out and extension of Hannah street. Beginning at a point in the northerly line of Atwell's avenue, in range with the easterly line of Lavaughn street, and running northerly in said range about 80 feet; thence turning and running easterly, parallel with and 80 feet northerly from said Atwell's avenue to a point opposite the westerly corner of Covell street and Atwell's avenue; thence turning a right angle southerly and running to a point in the southerly line of Atwell's avenue at its junction with the westerly line of Covell street; thence turning and running easterly in the southerly line of Atwell's avenue in the northeasterly corner of the lot 169, on assessor's plat numbered 63; thence turning and running southerly to the northerly line of Amherst street at the southeast corner of lot numbered 182, on the said assessor's plat; thence turning and running southwesterly to the northeasterly corner of lot numbered 267, on the aforesaid assessor's plat; thence turning and running southerly to the southeasterly corner of lot numbered 258, on said assessor's plat; thence turning and running southeasterly to the easterly corner of lot numbered 434 on said assessor's plat; thence turning and running southwesterly through a point in the northeasterly line of Manton avenue at the southerly corner of lot numbered 341, on the aforesaid assessor's plat to a

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point in the southwesterly line of Curtis street; thence turning and running northwesterly in the said line of Curtis street to a point 80 feet northwesterly from the northwesterly line of Bosworth street; thence turning and running northeasterly in a line parallel with and 80 feet northwesterly from said Bosworth street to a point 80 feet from the southwesterly line of Manton avenue; thence turning and running northwesterly in a line parallel with and 80 feet southwesterly from said Manton avenue to a point in range with the dividing line between lots numbered 322 and 323, on said assessor's plat; thence turning and running northeasterly to the southerly line of Amherst street at the easterly corner of said lot numbered 323; thence turning and running easterly to the northerly line of said Amherst street at its junction with the easterly line of Lavaughn street; thence turning and running northerly in the easterly line of Lavaughn street to the point of beginning. The plat of the aforesaid layout and extension of Hannah street and of the assessment area may be seen at the office of Thomas F. West, 87 Weybosset street, rooms 40–41.

CHARLES E. HARRIS,
THOMAS F. LEONARD,
GEORGE F. HOLROYD,
WILLIAM DUFFY,
THOMAS F. WEST,
Commissioners.

PROVIDENCE, May 16, 1896.

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I hereby certify that the aforegoing is a true copy of the report of the Commissioners of Estimate and Assessment appointed by the Common Pleas Division of the Supreme Court, on the 13th day of February, A. D. 1896, in the matter of the layout and extension of Hannah street, from Amsterdam street to Atwell's avenue, to be by them made to said Court.

THOMAS F. WEST,

One of the Commissioners and Clerk of the Commission.

Received on file in the City Clerk's office, in the City of Providence, on the 18th day of November, A. D. 1896.

Witness:



City Clerk.

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REPORT

OF THE COMMISSIONERS OF ESTIMATE AND ASSESSMENT

UPON THE

LAYOUT, WIDENING AND EXTENSION

OF

MOUNT PLEASANT AVENUE

FROM CHALKSTONE AVENUE TO ATWELL'S AVENUE.



REMINGTON PRINTING CO., CITY PRINTERS,
63 Washington Street.
1896.

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REPORT.

PROVIDENCE, SC.

To the Honorable the Common Pleas Division of the Supreme Court, now holden at Providence, within and for the County of Providence, September session, A. D. 1896.

The undersigned, appointed on the 18th day of February, A. D. 1896, Commissioners of Estimate and Assessment under and according to an act entitled "An act in relation to the laying out, enlarging, straightening, and otherwise altering streets in the City of Providence," upon the application of the City Council of the City of Providence, representing that it is desirable and necessary to lay out, widen and extend a certain street in the City of Providence, to wit.: Mount Pleasant Avenue, from Chalkstone Avenue to Atwell's Avenue, making for the easterly line thereof, as improved, a line beginning at a point in the southerly line of Chalkstone Avenue and running thence southerly (in the easterly line of Mount Pleasant Avenue, as platted on "Map of Villa Lots at Mount Pleasant belonging to George W. Chapin and Abiel Sampson," etc., a copy of which may be found on card 316, in the office of the Recorder of Deeds), to the southerly line of Dover street; thence running southerly (in the easterly line of Mount Pleasant Avenue, as platted on "Plat of the southerly portion of Mount Pleasant," etc., a copy of which is to be found on card 313 in said Recorder's office), to the southerly line of said plat; thence deflecting slightly westward and running southerly (ranging to a point in the southerly line of Atwell's Avenue 210 feet easterly from the easterly corner of Steuben street and said Atwell's Avenue), to the northerly line of Atwell's Avenue, and

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making the width of said Mount Pleasant Avenue, as improved, to be 60 feet from Chalkstone Avenue to the southerly line of Dover street, and 50 feet from said Dover street to Atwell's Avenue, respectfully report:

That said commissioners having been first severally engaged to the faithful performance of the trusts and duties required of them under their commission, by the act of the General Assembly, entitled "An act in relation to the laying out, enlarging, straightening and otherwise altering streets in the City of Providence," as is duly certified on their commission, they, on the 13th day of March, A. D. 1896, proceeded to the place of such lay-out, widening and extending, and, after viewing the premises required for the same, caused a survey and plat to be made thereof, and of the estates which, in their judgment, are especially interested in said lay-out, widening and extending, which plat is herewith returned and made a part of this report.

That subsequently, they caused notice to be given to all persons interested in said lands, tenements, hereditaments, and premises required for the said laying out, widening and extending, and to all persons who are owners of lands, tenements, hereditaments and premises, which are, in the opinion of said commissioners, benefited thereby, of the time and place of making an estimate of the value of the property so required, and of the benefits conferred, by publishing when and where such estimate and assessment was to be made, during the space of three weeks, in the *Manufacturers and Farmers' Journal* and *The Providence News*, two of the newspapers printed in said Providence, a copy of which published notice is hereto annexed, marked "A."

That pursuant to such notice, they met at the time and place therein named, and at said meeting all persons interested had full opportunity to be heard in relation to said laying out, widening and extending, and after hearing all parties who appeared and desired to be heard, they proceeded to make the estimate and assessment of loss and

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damage, and of benefit and advantage, as required of them by said act and their said commission, as follows:

In order to lay out, widen and extend Mount Pleasant Avenue, from Chalkstone Avenue to Atwell's Avenue, as proposed by the said City Council, as aforesaid, and as delineated on the plat above referred to, it will be necessary to take from the following lots, numbered on said plat to correspond with the numbers of the same lots on Assessors' plat No. 64 the number of square feet set opposite said lots below, that is to say:

	Square feet.
From lot 492 on said plat, belonging to Julia P. Adie Anthony, wife of Frederick E. Anthony, twenty thousand and five hundred and five square feet	20,505
From lot 418 on said plat, belonging to George W. Chapin and Mary W. Chapin, his wife, William H. Ballou and the heirs of James H. Parsons, as assignees for the benefit of the creditors of said George W. Chapin, as their interest shall appear, one thousand and eight hundred and four square feet	1,804
From lot 417 on said plat, belonging to William H. McConnell, and subject to a mortgage to Amanda M. P. Stevens, wife of James A. Stevens, four hundred and sixty-six square feet	466
From lot 382 on said plat, belonging to heirs of George J. West, seven hundred square feet	700
From lot 367 on said plat, belonging to Margaret Alwell, seven hundred and fifty square feet	750
From lot 346 on said plat, belonging to Philip Conaty and heirs of his wife Mary, deceased, and subject to a mortgage to Albert M. Armstrong, who transferred same to Bernard McGuinness, seven hundred and fifty square feet	750
From lot 325 on said plat, belonging to heirs of William R. Wilbur, eight hundred and twenty square feet	820
From lot 304 on said plat, belonging to heirs of William R. Wilbur, eight hundred and ten square feet	810
From lot 241 on said plat, belonging to Mary Connelly, wife of Gilbert, and subject to a mortgage to Fenner Smith, seven hundred square feet	700
From lot 220 on said plat, belonging to Edmund R. Laughorn and wife Elizabeth, seven hundred square feet	700
From lot 157 on said plat, belonging to Walter P. Andrews and subject to a mortgage to Daniel G. Aldrich of Smithfield, seven hundred and fifty square feet	750

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From lot 136 on said plat, belonging to Catherine Ellerbeck, widow of Charles, seven hundred and fifty square feet 750

From lot 91 on said plat, belonging to Susan A. McKay, wife of George W., eight hundred square feet 800

From the easterly side of lot 70 on said plat, a strip of land containing eight hundred square feet, which strip is owned by Horace F. Horton and is subject to a mortgage to David F. Goff of East Providence 800

From the easterly side of lot 403 on said plat, a strip of land containing seven hundred square feet, which strip is owned by Benjamin Bray and David Eastwood, as their interest may appear, and subject to a mortgage to Giles M. Nichols of Coventry and to another mortgage to Charles and James Fletcher 700

And the undersigned estimate and report the loss and damage to the owners and parties interested in said estates by reason of said laying out, widening and extending of said Mount Pleasant Avenue, over and above all advantages therefrom accruing to them respectively as such owners, and parties interested, as follows:

To Julia P. Adie Anthony, wife of Frederick E. Anthony, on lot 492 on said plat 64, two thousand, four hundred and sixty-one dollars $2,461 00

To George W. Chapin and Mary W. Chapin his wife, William H. Ballou and the heirs of James H. Parsons as assignees for the benefit of the creditors of said George W. Chapin, as their interest shall appear, on lot 418 on said plat 64, three hundred twenty-four dollars and seventy-two cents 324 72

To William H. McConnell, Amanda M. P. Stevens, wife of James A. Stevens, mortgagee, on lot 417 on said plat 64, fifty-five and 51-100 dollars 55 51

To David Eastwood and Benjamin Bray (Giles M. Nichols of Coventry and Charles Fletcher and James Fletcher, mortgagees), as their interest shall appear, on a strip of land containing seven hundred square feet on the easterly side of lot 403 on said plat 64, one hundred and five dollars 105 00

To Albert, Helen, John R., Margaret, Alice M., Rosalind and Dorothy West as heirs of George J. West and to Margaret West, his widow, as their interest shall appear, on lot 382 on said plat 64, eighty-four dollars 84 00

To Margaret Alwell, on lot 367 on said plat 64, ninety dollars 90 00

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To Philip Conaty and John, James, Margaret, Philip and Bernard Conaty as heirs of Mary Conaty, wife of said Philip (Bernard McGuinness assignee of the mortgagee), on lot 346 on said plat 64, ninety dollars	90 00
To Mary S. Brown, widow of Henry H., as heir of William R. Wilbur, on lot 325 on said plat 64, ninety-eight and 40-100 dollars	98 40
To Mary S. Brown, widow of Henry H., as heir of William R. Wilbur, on lot 304 on said plat 64, ninety-seven and 20-100 dollars	97 20
To Mary Connelly, wife of Gilbert (Fenner Smith, mortgagee), on lot 241 on said plat 64, eighty-four dollars	84 00
To Edmund R. Langhorn and wife Elizabeth, on lot 220 on said plat 64, eighty-four dollars	84 00
To Walter P. Andrews (Daniel G. Aldrich of Smithfield, mortgagee), on lot 157 on said plat 64, ninety dollars	90 00
To Catherine Ellerbeck, widow of Charles, on lot 136 on said plat 64, ninety dollars	90 00
To Susan A. McKay, wife of George W. McKay, on lot 91 on said plat 64, ninety-six dollars	96 00
To Horace F. Horton, David F. Goff of East Providence, mortgagee, on a strip of land containing eight hundred square feet on the easterly side of lot 70 on said plat 64, one hundred and twenty dollars	120 00
	$3,969 83

And the undersigned further report, that the total excess of loss and damage over and above the benefit and advantage to the estates aforesaid, is the sum of three thousand and nine hundred and sixty-nine and 83-100 dollars ($3,969.83.)

And the undersigned further estimate, assess and report the excess and surplus of benefit and advantage over and above the loss and damage resulting to the owners and parties interested respectively in such of the estates hereinafter enumerated as are required for such lay-out, widening and extending, and also the value of the benefit of such laying out, widening and extending to the owners, lessees, parties and persons respectively interested in the estates hereinafter enumerated, which are not required as aforesaid, but which, in the opinion of the undersigned, are benefitted thereby, in respect to the said lands, tenements, heredita-

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ments and premises, to be the several amounts set opposite to and assessed upon said estates, and the names of said persons and parties respectively.

And the undersigned further report, that in accordance with the directions in the commission issued to them, they have apportioned and assessed three-fourths of said loss and damage estimated as aforesaid, at the sum of three thousand and nine hundred and sixty-nine and 83-100 dollars, being the sum of two thousand and nine hundred and seventy-seven and 37-100 dollars, in the ratio of the benefit conferred by such laying out, widening and extending, and do apportion and assess the same to the following persons in the amounts and for the estates designated, that is to say:

To James Aldred, on lot 47 on plat 63, eight and 3-100 dollars	$8 03
To William Paisley, Jr., on lot 48 on said plat 63, eight and 3-100 dollars	8 03
To Phebe Hamill, widow of Hugh, and Margaret L. Hamill, as heir of Hugh Hamill, on lot 75 on said plat 63, sixteen and 6-100 dollars	16 06
To John Quinn (Tobias Burke, mortgagee), on lot 76, on said plat 63, sixteen and 6-100 dollars	16 06
To Ann Reid, on lot 77 on said plat 63, twenty-four and 10-100 dollars	24 10
To John Doonan and wife Ellen, on lot 78 on said plat 63, twenty-four and 10-100 dollars	24 10
To Mary McCarthy, wife of John (Julia A. G. Hayward, wife of Geo. W., mortgagee), on lot 79 on said plat 63, thirty-two and 13-100 dollars	32 13
To Mary McCarthy, wife of John (Julia A. G. Hayward, wife of Geo. W., mortgagee), on lot 80 on said plat 63, thirty and 75-100 dollars	30 75
To John Banigan and wife Mary (Philip M. Carpenter of Attleboro and George C. Noyes of Providence, trustees under the will of Ebenezer Carpenter, mortgagees), on lot 162 on said plat 63, fifty-six and 22-100 dollars	56 22
To Elizabeth C. Johnson, widow of William S., and Edwin A. Johnson and Josephine G. Greene, heirs of said William S. Johnson, on lot 163 on said plat 63, forty and 16-100 dollars	40 16
To Elizabeth C. Johnson, widow of William S., and Edwin A. Johnson and Josephine G. Greene, heirs of said William S. Johnson, on lot 164 on said plat 63, thirty and 12-100 dollars	30 12

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To Mary A. Kirwan (Josephine G. Greene of Warwick, mortgagee), on lot 165 on said plat 63, twenty and 8-100 dollars 20 08

To Walter F. Riley and wife Emma J., on lot 166 on said plat 63, fifteen and 6-100 dollars 15 06

To Hannah F. Underwood, widow of Geo. B., and Ethel C. Brownell as heir of George B. Underwood, Walter S. Brownell a right of curtesy, (Charles H. Atwood trustee under the will of Henry J. Steere, mortgagee), on lot 167 on said plat 63, ten and 4-100 dollars 10 04

To William H. McConnell (Amanda M. P. Stevens, wife of James A. Stevens, mortgagee), on lot 416 on said plat 64, ten and 7-100 dollars 10 07

To William H. McConnell (Amanda M. P. Stevens, wife of James A. Stevens, mortgagee), on lot 415, on said plat 64, seven and 93-100 dollars 7 93

To William H. McConnell (Amanda M. P. Stevens, wife of James A. Stevens, mortgagee), on lot 414 on said plat 64, eight and 31-100 dollars 8 31

To Nancy Bradley (Amey A. Smith of Johnston, mortgagee), on lot 413 on said plat 64, five and 79-100 dollars.... 5 79

To Nancy Bradley (Amey A. Smith of Johnston, mortgagee), on lot 412 on said plat 64, six and 5-100 dollars..... 6 05

To Antonio Luckine and wife Mary, on lot 419 on said plat 64, seventeen and 11-100 dollars 17 11

To Alice Hyde, wife of George Hyde (Sarah T. Smith, wife of Fenner Smith, mortgagee), on lot 420 on said plat 64, sixteen and 56-100 dollars 16 56

To John McKenna (Mary S. Brown, mortgagee), on lot 421 on said plat 64, twelve and 5-100 dollars 12 05

To Peter Carr, on lot 422 on said plat 64, eight and 3-100 dollars 8 03

To Daniel Burns (Hugh B. Bain of Cranston, mortgagee), on lot 405 on said plat 64, thirteen and 37-100 dollars..... 13 37

To Francis J. Turbitt (Hugh B. Bain of Cranston, mortgagee), on lot 404 on said plat 64, twenty-eight and 11-100 dollars 28 11

To David Eastwood (Giles M. Nichols of Coventry and Charles and James Fletcher, mortgagees), on lot 402 on said plat 64, fourteen and 6-100 dollars..... 14 06

To David Eastwood (Giles M. Nichols of Coventry and Charles and James Fletcher, mortgagees), on lot 401 on said plat 64, ten and 54-100 dollars 10 54

To David Eastwood (Giles M. Nichols of Coventry and Charles and James Fletcher, mortgagees), on lot 400 on said plat 64, ten and 54-100 dollars..... 10 54

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To David Eastwood (Giles M. Nichols of Coventry and Charles and James Fletcher, mortgagees), on lot 399 on said plat 64, ten and 54-100 dollars..... 10 54

To James Murray and wife Henrietta (Roger Williams Savings Fund and Loan Association, mortgagee), on lot 397 on said plat 64, five and 27-100 dollars..... 5 27

To Joseph Swales and wife Eliza, on lot 388 on said plat 64, five and 27-100 dollars..... 5 27

To David Farrar and wife Margaret (Rodney F. Dyer, Jr., mortgagee), on lot 386 on said plat 64, ten and 54-100 dollars..... 10 54

To Jane Hodgson, widow of William, and William, Wilfred, Martha, Thomas and Nathaniel Hodgson, heirs of William Hodgson, on lot 385 on said plat 64, ten and 54-100 dollars..... 10 54

To Jane Hodgson, widow of William, and William, Wilfred, Martha, Thomas and Nathaniel Hodgson, heirs of William Hodgson, on lot 384 on said plat 64, ten and 54-100 dollars..... 10 54

To William H. Covell, on lot 383, on said plat 64, fourteen and 6-100 dollars..... 14 06

To Mary Bean, on lot 381 on said plat 64, twenty-eight and 11-100 dollars..... 28 11

To John Beane and wife Mary, on lot 380 on said plat 64, fourteen and 6-100 dollars..... 14 06

To John Beane and wife Mary, on lot 379 on said plat 64, ten and 54-100 dollars..... 10 54

To Josephine H. Grimwood, on lot 378 on said plat 64, seven and 29-100 dollars..... 7 29

To Andrew Jordan and wife Margaret A., on lot 371 on said plat 64, seven and 53-100 dollars..... 7 53

To William A. Sprague, on lot 370 on said plat 64, eleven and 29-100 dollars..... 11 29

To Thomas Thompson, on lot 369 on said plat 64, fifteen and 6-100 dollars..... 15 06

To Thomas Thompson, on lot 368 on said plat 64, thirty and 12-100 dollars..... 30 12

To Margaret Alwell, on lot 366 on said plat 64, fifteen and 6-100 dollars..... 15 06

To Hugh Davis (Ellen R. Hunt of East Providence, mortgagee), on lot 365 on said plat 64, eleven and 29-100 dollars. 11 29

To John N. Rondina and wife Teresa, on lot 364 on said plat 64, eleven and 29-100 dollars..... 11 29

To Archie McNicol, on lot 363 on said plat 64, seven and 53-100 dollars..... 7 53

To William H. Hall, on lot 362 on said plat 64, seven and 53-100 dollars..... 7 53

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To William H. Hall, on lot 351 on said plat 64, seven and 53-100 dollars 7 53

To Archie McNicol, on lot 350 on said plat 64, seven and 53-100 dollars 7 53

To John N. Rondina and wife Teresa, on lot 349 on said plat 64, eleven and 29-100 dollars 11 29

To Hugh Davis (Ellen R. Hunt of East Providence, mortgagee), on lot 348 on said plat 64, eleven and 29-100 dollars. 11 29

To Philip Conaty and John, James, Margaret, Philip and Bernard Conaty as heirs of Mary wife of said Philip Conaty (Bernard McGuinness, assignee of the mortgagee), on lot 347 on said plat 64, fifteen and 6-100 dollars 15 06

To James King, on lot 345 on said plat 64, thirty and 12-100 dollars 30 12

To James King (Edward McCabe, assignee of the mortgagee), on lot 344 on said plat 64, fifteen and 6-100 dollars.. 15 06

To Emily R. McCrillis, on lot 343 on said plat 64, eleven and 29-100 dollars 11 29

To Gertrude W. Dean, wife of S. Barnaby Dean (Smithfield Savings Bank, mortgagee), on lot 342 on said plat 64, seven and 53-100 dollars 7 53

To Anne Cunningham, wife of Patrick, on lot 329 on said plat 64, eight and 23-100 dollars 8 23

To Christian Barthelmes and wife Josephine (Orrin P. Durkee of Warrenville, Conn., mortgagee), on lot 328 on said plat 64, twelve and 35-100 dollars 12 35

To Thomas F. and Mary A. Murphy, on lot 327 on said plat 64, sixteen and 46-100 dollars 16 46

To Mary Tierney, on lot 326 on said plat 64, thirty-two and 93-100 dollars 32 93

To Mary S. Brown, widow of Henry H., as heir of William R. Wilbur, on lot 324 on said plat 64, sixteen and 46-100 dollars 16 46

To Andrew Burns, on lot 323 on said plat 64, twelve and 35-100 dollars 12 35

To Elisha A. Winsor of Johnston (Smithfield Savings Bank, mortgagee), on lot 322 on said plat 64, twelve and 35-100 dollars 12 35

To Ann Manion, wife of Patrick (William Heaton of Johnston and John G. Dolbel, mortgagees), on lot 321 on said plat 64, eight and 23-100 dollars 8 23

To James Crosby, on lot 320 on said plat 64, eight and 23-100 dollars 8 23

To Ann Manion, wife of Patrick (William Heaton of Johnston and John G. Dolbel, mortgagees), on lot 309 on said plat 64, eight and 13-100 dollars 8 13

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To Ann Manion, wife of Patrick (William Heaton of Johnston and John G. Dolbel, mortgagees), on lot 308 on said plat 64, eight and 13-100 dollars 8 13

To Elisha A. Winsor of Johnston (Smithfield Savings Bank, mortgagee), on lot 307 on said plat 64, twelve and 20-100 dollars 12 20

To James Ryan and wife Sarah (Citizens' Savings Bank, mortgagee), on lot 306 on said plat 64, twelve and 20-100 dollars 12 20

To Mary S. Brown, widow of Henry H., as heir of William R. Wilbur, on lot 305 on said plat 64, sixteen and 26-100 dollars 16 26

To Alexander Brough, on lot 303 on said plat 64, thirty-two and 53-100 dollars 32 53

To Alexander Brough, on lot 302 on said plat 64, sixteen and 27-100 dollars 16 27

To Catherine Deignan, wife of Thomas (Noah Draper of Pawtucket, mortgagee), on lot 301 on said plat 64, twelve and 20-100 dollars 12 20

To Catherine Deignan, wife of Thomas (Noah Draper of Pawtucket, mortgagee), on lot 300 on said plat 64, eight and 13-100 dollars 8 13

To John H. Campbell, on lot 245 on said plat 64, seven and 3-100 dollars 7 03

To John H. Campbell, on lot 244 on said plat 64, ten and 54-100 dollars 10 54

To Jesse T. Mann (Mary Brady, mortgagee), on lot 243 on said plat 64, fourteen and 6-100 dollars 14 06

To Jesse T. Mann (Mary Brady, mortgagee), on lot 242 on said plat 64, twenty-eight and 11-100 dollars 28 11

To Mary Connelly, wife of Gilbert (Fenner Smith, mortgagee), on lot 240 on said plat 64, fourteen and 6-100 dollars 14 06

To Thomas R. Thornley (John P. Smith, mortgagee), on lot 239 on said plat 64, ten and 54-100 dollars 10 54

To William Heaton of Johnston (Smithfield Savings Bank, mortgagee), on lot 238 on said plat 64, ten and 54-100 dollars 10 54

To William Heaton of Johnston (Smithfield Savings Bank mortgagee), on lot 257 on said plat 64, seven and 3-100 dollars 7 03

To William Bender, on lot 236 on said plat 64, seven and 3-100 dollars 7 03

To William Bender, on lot 225 on said plat 64, seven and 3-100 dollars 7 03

To Lewis Belanger (Horace F. Horton, mortgagee), on lot 224 on said plat 64, seven and 3-100 dollars 7 03

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To Lewis Belanger (Horace F. Horton, mortgagee), on lot 223 on said plat 64, ten and 54-100 dollars..... 10 54

To Samuel Graham of Somerville, Mass., (Isaac S. Craig of said Somerville, mortgagee), on lot 222 on said plat 64, ten and 54-100 dollars..... 10 54

To Edmund R. Langhorn and wife Elizabeth, on lot 221 on said plat 64, fourteen and 6-100 dollars..... 14 06

To Mary Brady, on lot 219 on said plat 64, twenty-eight and 11-100 dollars..... 28 11

To Mary Brady, on lot 218 on said plat 64, fourteen and 6-100 dollars..... 14 06

To John H. Campbell of Warwick, on lot 217 on said plat 64, ten and 54-100 dollars..... 10 54

To John H. Campbell of Warwick, on lot 216 on said plat 64, seven and 3-100 dollars..... 7 03

To Catherine Mullen, wife of Thomas F., on lot 161 on said plat 64, seven and 53-100 dollars..... 7 53

To William J. Beane, on lot 160 on said plat 64, eleven and 29-100 dollars..... 11 29

To William J. Beane, on lot 159 on said plat 64, fifteen and 6-100 dollars..... 15 06

To William J. Beane, on lot 158 on said plat 64, thirty and 12-100 dollars..... 30 12

To Walter P. Andrews (Daniel G. Aldrich of Smithfield, mortgagee), on lot 156 on said plat 64, fifteen and 6-100 dollars..... 15 06

To Frank I. Angell, on lot 155 on said plat 64, eleven and 29-100 dollars..... 11 29

To Frank I. Angell, on lot 154 on said plat 64, eleven and 29-100 dollars..... 11 29

To Frank I. Angell, on lot 153 on said plat 64, seven and 53-100 dollars..... 7 53

To Frank I. Angell, on lot 152 on said plat 64, seven and 53-100 dollars..... 7 53

To Patrick Barry and wife Ellen, on lot 141 on said plat 64, seven and 53-100 dollars..... 7 53

To Patrick Barry and wife Ellen, on lot 140 on said plat 64, seven and 53-100 dollars..... 7 53

To Frank L. Palmer and wife Katie A. (William A. Phillips of Johnston, mortgagee), on lot 139 on said plat 64, eleven and 29-100 dollars..... 11 29

To Frank L. Palmer and wife Katie A. (William A. Phillips of Johnston, mortgagee), on lot 138 on said plat 64, eleven and 29-100 dollars..... 11 29

To Catherine Ellerbeck, widow of Charles, on lot 137 on said plat 64, fifteen and 6-100 dollars..... 15 06

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To William J. Beane, on lot 135 on said plat 64, thirty and 12-100 dollars 30 12

To William J. Beane, on lot 134 on said plat 64, fifteen and 6-100 dollars 15 06

To William J. Beane, on lot 133 on said plat 64, eleven and 29-100 dollars 11 29

To Owen Brennan, on lot 132 on said plat 64, seven and 53-100 dollars 7 53

To Susan A. McKay, wife of George W., on lot 90 on said plat 64, sixteen and 6-100 dollars 16 06

To Ella G. Brayton, wife of John A. of Smithfield, (Charles E. Humphrey of Seekonk, mortgagee), on lot 89 on said plat 64, twelve and 5-100 dollars 12 05

To Ella G. Brayton, wife of John A., of Smithfield, (Charles E. Humphrey of Seekonk, mortgagee), on lot 88 on said plat 64, twelve and 5-100 dollars 12 05

To Edward M. Coker, on lot 87 on said plat 64, eight and 3-100 dollars 8 03

To George L. Spencer (Emma T. Atwood of Johnston, mortgagee), on lot 86 on said plat 64, eight and 3-100 dollars 8 03

To Harry and Lydia Palmer (Horace F. Horton, mortgagee), on lot 75 on said plat 64, eight and 3-100 dollars.... 8 03

To Thomas Devine and wife Anne, on lot 74 on said plat 64, eight and 3-100 dollars 8 03

To John H. David, on lot 73 on said plat 64, twelve and 5-100 dollars 12 05

To John H. David, on lot 72 on said plat 64, twelve and 5-100 dollars 12 05

To John H. David (Mechanics' Savings Bank, mortgagee), on lot 71 on said plat 64, sixteen and 6-100 dollars..... 16 06

To Patrick F. O'Connor, on lot 65 on said plat 64, one hundred and seven and 22-100 dollars 107 22

To Patrick F. O'Connor, on lot 92 on said plat 64, twenty and 78-100 dollars 20 78

To Walter Callender, on lot 503 on said plat 64, twenty-five and 10-100 dollars 25 10

To Walter Callender, on lot 504 on said plat 64, sixteen and 94-100 dollars 16 94

To Walter Callender, on lot 541 on said plat 64, eleven and 29-100 dollars 11 29

To Walter Callender, on lot 542 on said plat 64, eleven and 29-100 dollars 11 29

To Walter Callender, on lot 540 on said plat 64, seven and 6-100 dollars 7 06

To Walter Callender, on lot 539 on said plat 64, seven and 6-100 dollars 7 06

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To Walter Callender, on lot 538 on said plat 64, seven and 6-100 dollars 7 06

To Walter Callender, on lot 537 on said plat 64, seven and 6-100 dollars 7 06

To Walter Callendar, on lot 536 on said plat 64, seven and 6-100 dollars 7 06

To Walter Callender, on lot 535 on said plat 64, seven and 6-100 dollars 7 06

To Walter Callender, on lot 534 on said plat 64, seven and 6-100 dollars 7 06

To Walter Callender, on lot 533 on said plat 64, seven and 6-100 dollars 7 06

To Walter Callender, on lot 532 on said plat 64, five and 64-100 dollars 5 64

To Walter Callender, on lot 531 on said plat 64, five and 64-100 dollars 5 64

To Walter Callender, on lot 505 on said plat 64, twenty-three and 6-100 dollars 23 06

To Walter Callender, on lot 506 on said plat 64, twenty-three and 6-100 dollars 23 06

To Walter Callender, on lot 507 on said plat 64, twenty-three and 6-100 dollars 23 06

To Walter Callender, on lot 508 on said plat 64, twenty-three and 6-100 dollars 23 06

To Walter Callender, on lot 509 on said plat 64, twenty-three and 6-100 dollars 23 06

To Walter Callender, on lot 510 on said plat 64, twenty-three and 6-100 dollars 23 06

To Walter Callender, on lot 511 on said plat 64, twenty-three and 6-100 dollars 23 06

To Walter Callender, on lot 512 on said plat 64, twenty-three and 6-100 dollars 23 06

To Walter Callender, on lot 513 on said plat 64, eighteen and 49-100 dollars 18 49

To Walter Callender, on lot 514 on said plat 64, eighteen and 49-100 dollars 18 49

To John J. Shaw and wife Elizabeth, on lot 655 on said plat 64, twenty-five and 10-100 dollars 25 10

To Walter Callender, on lot 9 on said plat 64, forty-four and 56-100 dollars 44 56

To Walter Callender, on lot 10 on said plat 64, sixty-two and 75-100 dollars 62 75

To Walter Callender, on lot 11 on said plat 64, forty-seven and 5-100 dollars 47 05

To Katherine C. Greene of Warwick, on lot 623 on said plat 64, fifteen and 69-100 dollars 15 69

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To William C. Benedict, on lot 12 on said plat 64, sixty-two and 75-100 dollars..... 62 75

To John Casey, on lot 515 on said plat 64, thirty and 59-100 dollars..... 30 59

To John Casey, on lot 516 on said plat 64, twenty-three and 52-100 dollars..... 23 52

To John Casey, on lot 517 on said plat 64, twenty-three and 52-100 dollars..... 23 52

To John Casey, on lot 518 on said plat 64, thirty and 59-100 dollars..... 30 59

To John Casey, on lot 528 on said plat 64, seven and 22-100 dollars..... 7 22

To John Casey, on lot 561 on said plat 64, seven and 22-100 dollars..... 7 22

To John Casey, on lot 526 on said plat 64, seven and 22-100 dollars..... 7 22

To John Casey, on lot 527 on said plat 64, seven and 22-100 dollars..... 7 22

To John Casey, on lot 13 on said plat 64, twelve and 80-100 dollars..... 12 80

To John Casey, on lot 619 on said plat 64, eight and 53-100 dollars..... 8 53

To John Casey, on lot 618 on said plat 64, four and 27-100 dollars..... 4 27

To John Casey, on lot 617 on said plat 64, four and 27-100 dollars..... 4 27

To John Casey, on lot 620 on said plat 64, eleven and 29-100 dollars..... 11 29

To John Casey, on lot 621 on said plat 64, six and 27-100 dollars..... 6 27

To John Casey, on lot 622 on said plat 64, thirty-eight and 15-100 dollars..... 38 15

To John Casey, on lot 520 on said plat 64, twenty-two and 95-100 dollars..... 22 95

To John Casey, on lot 521 on said plat 64, twenty-one and 65-100 dollars..... 21 65

To John Casey, on lot 522 on said plat 64, twenty-one and 65-100 dollars..... 21 65

To John Casey, on lot 1 on said plat 64, twenty-five and 32-100 dollars..... 25 32

To John Casey, on lot 523 on said plat 64, six and 46-100 dollars..... 6 46

To John Casey, on lot 524 on said plat 64, six and 46-100 dollars..... 6 46

To John Casey, on lot 3 on said plat 64, six and 74-100 dollars..... 6 74

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To John Casey, on lot 2 on said plat 64, six and 77-100 dollars	6 77
To John Casey, on lot 625 on said plat 64, forty-five and 23-100 dollars	45 23
To John Casey, on lot 627 on said plat 64, fifteen dollars.	15 00
To John Casey, on lot 626 on said plat 64, five dollars	5 00
To John Casey, on lot 14 on said plat 64, fourteen and 66-100 dollars	14 66
To John Casey, on lot 628 on said plat 64, five and 8-100 dollars	5 08
To Dexter Land Company, on lot 1 on plat 83, forty-five dollars	45 00
To Dexter Land Company, on lot 79 on said plat 83, forty-five dollars	45 00
To John H. David (Mechanics' Savings Bank, mortgagee), on the westerly 2,400 square feet of lot 70 on said plat 64, twenty-four dollars	24 00
To David Eastwood (Giles M. Nichols of Coventry and Charles and James Fletcher, mortgagees), on the westerly 2,100 square feet of lot 403 on said plat 64, twenty-one dollars	21 00
	$2,977 37

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The plat made for the use of the undersigned accompanies this report.

The undersigned herewith return the commission issued to them by this Court.

All of which is respectfully submitted

CHARLES E. HARRIS,
WILLIAM A. MORGAN,
GEORGE F. HOLROYD,
THOMAS H. LEONARD,
WILLIAM H. WOOD,

Commissioners.

PROVIDENCE, R. I., November 25th, A. D. 1896.

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"A"

LAYOUT, WIDENING AND EXTENDING OF MOUNT PLEASANT AVENUE.

The undersigned, appointed by the Honorable the Common Pleas Division of the Supreme Court, at its September Session, A. D. 1895, Commissioners of Estimate and Assessment, under and according to the provisions of the act of the General Assembly, entitled "An Act in relation to the laying out, enlarging, straightening and otherwise altering streets in the city of Providence," and the acts in amendment thereof, and in addition thereto, upon application of the City Council of said city, representing that it is desirable and necessary to lay out, widen and extend a certain street in said city of Providence, to wit, Mount Pleasant avenue from Chalkstone avenue to Atwell's avenue, making for the easterly line thereof, as improved, a line beginning at a point in the southerly line of Chalkstone avenue, and running thence southerly (in the easterly line of Mount Pleasant avenue, as platted on "Map of Villa Lots at Mount Pleasant, belonging to George W. Chapin and Abiel Sampson," etc., a copy of which may be found on card 316 in the office of the Recorder of Deeds), to the southerly line of Dover street; thence running southerly (in the easterly line of Mount Pleasant avenue, as platted on "Plat of the southerly portion of Mount Pleasant," etc., a copy of which is to be found on card 313 in said recorder's office), to the southerly line of said plat; thence deflecting slightly westward and running southerly (ranging to a point in the southerly line of Atwell's avenue 210 feet easterly from the easterly corner of Steuben street and said Atwell's avenue), to the northerly line of Atwell's avenue, and making the width of said Mount Pleasant avenue, as improved, to be 60 feet from Chalkstone avenue to the southerly line of Dover street and 50 feet from said Dover street to Atwell's avenue, and that certain real estate will be required for that purpose, and requesting the appointment of five Commissioners of Estimate and Assessment, under and according to said acts of the General Assembly, hereby give notice to all persons interested in their proceedings, under and by virtue of their said appointment, that they have appointed Friday, the 5th day of June, A. D. 1896, at 2 o'clock P. M., as the time, and Room B, in the City Hall, in said city, as the place of said meeting, to make the estimates and assessments to be by them made, under and by virtue of their commission by said act.

And the undersigned further give notice that, according to their present opinion, the lands, tenements, hereditaments and premises situate and lying between the following lines and boundaries are benefited within the intent and meaning of said act, by such lay out, widening and extending of Mount Pleasant avenue, viz.:

A certain area, bounded northerly by a line parallel with and 600 feet northerly from Chalkstone avenue, easterly by a line parallel with and 600 feet easterly from said Mount Pleasant avenue, as widened and

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extended, southerly by a line parallel with and 600 feet southerly from Atwell's avenue, and westerly by a line parallel with and 600 feet westerly from Mount Pleasant avenue as aforesaid.

Plat of the aforesaid layout and extension and of the assessment area may be seen at the office of William A. Morgan, number 87 Weybosset street, in said Providence.

CHARLES E. HARRIS,
WILLIAM A. MORGAN,
GEORGE F. HOLROYD,
THOMAS H. LEONARD,
WILLIAM H. WOOD,
Commissioners.

PROVIDENCE, May 15th, 1896.

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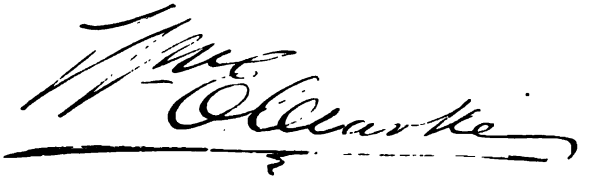
I hereby certify that the aforegoing is a true copy of the report of the Commissioners of Estimate and Assessment appointed by the Common Pleas Division of the Supreme Court, on the 18th day of February, A. D. 1896, in the matter of the layout, widening and extending of Mount Pleasant Avenue, from Chalkstone Avenue to Atwell's Avenue, to be by them made to said Court.

WILLIAM A. MORGAN,

One of the Commissioners and Clerk of the Commission.

Received on file in the City Clerk's office, in the City of Providence, on the 25th day of November, A. D. 1896.

Witness:



City Clerk.

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FIFTY-FIFTH

QUARTERLY REPORT

OF THE

Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING SEPTEMBER 30, 1896.



REMINGTON PRINTING CO., CITY PRINTERS,
63 Washington Street.
1896.

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REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS,
CITY HALL, PROVIDENCE, R. I., October 1, 1896.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of chapter IV. of the ordinances, the Commissioner of Public Works respectfully presents the fifty-fifth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending September 30, 1896:

WATER WORKS.

July 3d, the offer of R. B. Little & Co. to deliver at Pettaconset Pumping Station, George's Creek Cumberland coal until July 1, 1897, was accepted.

July 20th, the offer of Chapman Valve Manufacturing Company to furnish and deliver in this city six twelve-inch gates, twenty-five sixteen-inch gates and two twenty-four-inch gates for the separate system for fire protection, was accepted. Amount, $2,506.90.

July 20th, the offer of Coffin Valve Company to furnish and deliver one twenty-four-inch check valve for the separate system for fire protection, was accepted. Amount, $550.00.

The average daily consumption of water during the last quarter was 9,496,446 gallons.

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Water pipes were laid during the quarter, as follows:

16-INCH.

In line with Brayton avenue, extended south	231.36 feet.

12-INCH.

In West Exchange street	174.30 feet.

10-INCH.

In West Exchange street	461.34 feet.

8-INCH.

In Montgomery avenue; in Pontiac street, town of Cranston	800.71 feet.

6-INCH.

In Dowling place, Grand Broadway, Avon, Bartlett, Benedict, Calender, Clemence, Hamlin, Kepler, Larch, Lewis, McDonough, Mt. Vernon, Pratt, Porter, Richardson, Stansbury, Touro, Vinton streets; Grand, Oriole, Rhode Island, Rockland avenues; in Monument, Station streets; Branch, Colonial, Doric, Franklin, Glenwood, Hawthorn, Lawn, Waldron, Webster and Whipple avenues, town of Cranston	7,286.62 feet.
	8,954.33 feet.

or, 1.695+miles.

Statement of sizes and lengths of pipe laid since the commencement of the work:

36-inch	10,084.00 feet.
30-inch	59,893.04 feet.
24-inch	43,553.03 feet.
20-inch	9,626.59 feet.
16-inch	33,810.39 feet.
12-inch	86,316.85 feet.
10-inch	14,929.78 feet.
8-inch	250,944.52 feet.
6-inch	1,079,055.45 feet.
Total	1,588,213.65 feet.

or, 300.798+miles.

Eleven fire hydrants were set during the quarter, one in each of the following locations:

Atwell's avenue, north side, 85 feet east of Academy avenue.
Hannah street, southwest corner of Amsterdam street.
Hendrick street, northeast corner of Carleton street.
Kepler street, north side, about 381 feet east of Academy avenue.
McDonough street, northeast corner of Troy street.
Olney street, east side, about 77 feet south of Doyle avenue.

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Rangely avenue, north side, 208 feet east of Sears avenue.
Richardson street, north side, about 190 feet west of Eddy street.
Rockland avenue, northeasterly corner of Cambridge street.
Sears avenue, at the north corner of Cambridge street.
Touro street, east side, about 350 feet south of Branch avenue.

The total number of fire hydrants is now seventeen hundred and thirty-nine—sixteen hundred and seventy-three flush and sixty-six post hydrants.

During the quarter two hundred and thirty-one water meters were set, of which number seven were to replace other meters. The use of ten meters was discontinued.

The following meters were in use at the close of the quarter:

Kind.	Size.								Total.
	⅝-in.	¾-in.	1-in.	1½-in	2-in.	3-in.	4-in.	6-in.	
Ball & Fitts, piston	3,173	635	149	32	6				3,995
Ball & Fitts, rotary			21	18	1	3	2		45
Crown	6,901	710	197	87	24	13	13		7,945
Fales, Jenks & Sons			1						1
Gem						1			1
Thomson	2,092	326	74	54	22	7	7	4	2,586
Trident	28								28
Worthington	2	1			1		1		5
	12,196	1,672	442	191	54	24	23	4	14,606

Three plumbers' licenses were issued during the quarter, making the total number one hundred and five, all of which expire December 31, 1896.

Seven hundred and eighty-six permits to do plumbing work were issued during the quarter.

One hundred and ninety-four applications for water were made during the quarter, making the total number September 30, 1896, twenty-one thousand five hundred and seventy-one.

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The number of new service stops opened during the quarter was two hundred and ninety-four.

The total number of service stops opened to September 30, 1896, inclusive, was twenty thousand eight hundred and fifty-five. The number in actual use September 30, 1896, was nineteen thousand three hundred and eighty-two.

The amount of bills approved on account of water works from July 1 to September 30, 1896, inclusive, was:

For construction and extension . . . $62,723 71

Classified as follows:

Special water service for fire protection	$53,763 54	
Babcock and Wilcox boilers at Hope station—to erect	3,030 75	
Laying water pipes	2,630 32	
Laying service pipes	908 82	
Special castings	783 74	
Tools	259 28	
Barn expenses	258 68	
Taps and stops	251 28	
Wharf salaries	202 50	
Public drinking fountains and troughs	160 91	
Service pipe	160 73	
Labor on and carting pipe	135 94	
Fire hydrants, boxes and covers	61 62	
Barn at Fruit Hill reservoir—to build	51 68	
Horses, wagons, harnesses, etc	46 22	
Cast iron water pipe	16 35	
Holly high-duty compound engine at Hope station—to erect	1 35	
		$62,723 71

For maintenance $16,742 03

Classified as follows:

PETTACONSET PUMPING STATION.

Coal and wood	$2,408 90
Sundries	632 95
Engineers	545 53
Firemen	441 75
Amount carried forward	$4,029 13

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Amount brought forward	$4,029 13	
Superintendence	310 50	
Cornish engine house	214 62	
Corliss pumping engine and house	105 60	
Oil, waste and packing	104 01	
Barn expenses	93 90	
Care of grounds	38 95	
Labor on fuel	22 65	
Worthington high-duty pumping engine	9 21	
Lights	1 56	
Real estate	1 50	
Cornish pumping engine	65	
		$4,932 28

SOCKANOSSET RESERVOIR.

Watchman	$190 00	
Sundries	19 27	
		209 27

HOPE PUMPING STATION.

Engineers	$597 37	
Firemen	465 85	
Care of grounds	141 75	
Lights	75 18	
Sundries	66 36	
Oil, waste and packing	30 77	
		1,377 28

HOPE RESERVOIR.

Watchman	$224 87	
Sundries	1 25	
		226 12

FRUIT HILL RESERVOIR.

Sundries	$718 05	
Watchman	213 75	
		931 80

PIPE LINE AND SERVICE STOPS.

Repairs	$2,722 34	
Superintendence—salaries	924 27	
		3,646 61

METER DEPARTMENT.

Water Meters	$1,629 97	
Setting and repairing meters	1,315 68	
		2,945 65

Amount carried forward	$14,269 01

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Amount brought forward		$14,269 01
MISCELLANEOUS.		
Clerks' and inspectors' salaries	$1,278 32	
Telephone lines	540 00	
Prevention of defilement of the Pawtuxet	217 59	
Barn expenses	145 11	
Analyses of water	90 00	
Public drinking fountains and troughs	56 10	
Sundries	54 25	
Horses, wagons, harnesses, etc	53 37	
Pipe yard, office expenses	38 28	
		2,473 02
		$16,742 03

The amount of expenditures from July 1, to September 30, 1896, inclusive, was . . $79,465 74

The total expenditures to September 30, 1896, inclusive, were $8,360,435 74

The *net* expenditure for construction and extension from July 1 to September 30, 1896, inclusive, was	$56,986 79
The *net* expenditure for construction and extension to September 30, 1896, inclusive, was	6,233,000 54
The *net* expenditure for maintenance from July 1 to September 30, 1896, inclusive, was	10,472 68
The *net* expenditure for maintenance to September 30, 1896, inclusive, was	1,335,831 65

Bills deposited with the city treasurer for collection from July 1 to September 30, 1896, inclusive, amounted to $65,023 82

As follows:

Water	$53,223 33
Water meters	5,385 00
Setting and repairing meters	1,744 90
Rent of real estate	145 50
Hay at Sockanosset reservoir	40 00
Penalties	18 00
Permanently closing service stops	10 00
Examinations and repairs of pipe line	4 50
Amount carried forward	$60,571 23

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Amount brought forward	$60,571 23
Laying water pipe for the J. A. Budlong & Son Co.	2,021 23
Labor and material, laying service pipes, etc.	1,745 87
Cast iron water pipe	482 69
One brown horse	200 00
Pig lead	2 80
	$65,023 82

During the quarter coupons from bills collected have been returned by the city treasurer and receipted for, amounting to . . . $64,724 02

As follows:

Water	$54,699 75
Water Meters	4,530 75
Setting and repairing meters	1,521 20
Rent of real estate	150 50
Hay at Sockanosset reservoir	40 00
Penalties	18 00
Examination and repairs of pipe lines	16 90
Permanently closing service stops	10 00
Labor and material, laying service pipes, etc.	3,736 92
	$64,724 02

The amount of bills approved on account of water works for the fiscal year ending September 30, 1896, inclusive, was:

For construction and extension, . . $126,587 21

Classified as follows:

Special water service for fire protection	$53,766 94
Cast iron water pipe	28,306 62
Laying water pipe	11,330 29
Holly high-duty compound engine at Hope station—to erect	5,036 35
Special castings	4,071 87
Laying service pipe	3,827 21
Babcock and Wilcox boilers at Hope station—to erect	3,346 64
Stop valves	3,167 75
Fire hydrants, boxes and covers	3,031 37
Amount carried forward	$115,885 04

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Amount brought forward	$115,885 04	
Worthington high-duty pumping engine	2,500 00	
Taps and stops	1,992 84	
Service pipe	1,439 79	
Barn expenses	1,049 32	
Labor on and carting pipe	1,005 68	
Tools	874 48	
Horses, wagons, harnesses, etc	795 70	
Wharf salaries	785 00	
Public drinking fountains and troughs	160 91	
Barn at Fruit Hill reservoir—to build	51 68	
Sundries	30 70	
Repairs on pipe yard buildings	16 07	
		$126,587 21

For maintenance, ... $80,575 08

Classified as follows:

PETTACONSET PUMPING STATION.

Coal and wood	$11,802 29	
Sundries	2,828 09	
Engineers	2,237 98	
Firemen	2,099 75	
Lights	1,208 76	
Superintendence	1,200 93	
Corliss pumping engine and house	475 19	
Oil, waste and packing	332 01	
Cornish engine house	270 23	
Barn expenses	230 07	
Worthington high-duty pumping engine	219 83	
Care of grounds	207 60	
Labor on fuel	166 05	
Real estate	86 75	
Worthington pumping engine	77 71	
Cornish pumping engine	1 13	
		$23,444 37

SOCKANOSSET RESERVOIR.

Watchman	$734 00	
Sundries	506 89	
		1,240 89

HOPE PUMPING STATION.

Engineers	$2,310 48	
Firemen	1,712 45	
Coal and wood	1,627 24	
Sundries	537 73	
Lights	406 42	
Care of grounds	321 00	
Amounts carried forward	$6,915 32	$24,685 26

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Amounts brought forward	$6,915 32	$24,685 26
Hope pumping engine, No. 2	208 51	
Oil, waste and packing	75 40	
		7,199 23
HOPE RESERVOIR.		
Watchman	$834 62	
Sundries	719 22	
		1,553 84
FRUIT HILL RESERVOIR.		
Sundries	$1,861 75	
Watchman	825 75	
		2,687 50
PIPE LINE AND SERVICE STOPS.		
Repairs	$9,442 24	
Superintendence—salaries	3,586 90	
		13,029 14
METER DEPARTMENT.		
Water meters	$11,601 99	
Setting and repairing meters	5,498 36	
		17,100 35
MISCELLANEOUS.		
Town of Cranston, tax	$5,069 68	
Clerks' and inspectors' salaries	4,591 43	
Prevention of defilement of the Pawtuxet	1,413 39	
Barn expenses	809 78	
Horses, wagons, harnesses, etc	623 16	
Telephone lines	559 90	
Town of North Providence, tax	400 00	
Analyses of water	380 00	
Pipe yard, office expenses	203 00	
Sundries	169 30	
Public drinking fountains and troughs	81 62	
Town of Lincoln, tax	21 00	
Real estate at Pawtuxet	17 50	
		14,319 76
		$80,575 08

SEWERS.

During the quarter ending September 30, 1896, two hundred and ninety-four permits were issued to drain layers—one hundred and seventy-four for new work and one hundred and twenty for extension and repairs of drains.

One drain layer's license was issued during the quarter, making the total number forty-five, all of which expire December 31, 1896.

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August 3d, the offer of New England Steam Brick Company to haul sewer brick to the sewer in Pleasant Valley Division, Section 19, improved sewerage system, was accepted.

July 21st, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials, or rock excavation.]

To Watson & Sherman.

No. of resolution.	Date of approval.				
302.	June	27,	1896,	*Broad and Oxford streets*, ...	$1,243 36
306.	"	"	"	*Thayer street, from Arnold to Transit*,	311 61

To Frederick E. Shaw.

303.	June	27,	1896,	*Burrington street and Jackson avenue*, ...	$2,663 30
304.	"	"	"	*Felix street, from Chalkstone avenue to Valley street*, .	980 90

To George R. Newman & Co.

305.	June	27,	1896,	*Jewett street, from Park to Holden*, .	$337 40

August 3d, a contract for the construction of the following sewer was awarded and subsequently executed, namely:

To Frederick E. Shaw.

No. of resolution.	Date of approval				
159.	April	17,	1896.	*Pleasant Valley, Division Section 19, Improved Sewerage System*,	$30,547 00

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September 26th, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

To Watson & Sherman.

No. of resolution.	Date of approval.				
385.	Sept.	23,	1896,	*University avenue, from Slater avenue to Blackstone Boulevard,*	$223 15
388.	"	"	"	*Milk and Richardson streets, Prairie avenue and Broad street,*	925 28
390.	"	"	"	*Baxter, Gladstone and Ontario streets,*	1,466 76

To Frederick E. Shaw.

382.	Sept.	23,	1896,	*Esten street, from Orms to Smith,* .	$391 20
384.	"	"	"	*Paine street, from Cranston to Messer,*	666 30
387.	"	"	"	*Ruggles street and Chalkstone avenue,*	3,702 50
389.	"	"	"	*Chalkstone avenue, Lisbon street and Regent avenue,* .	2,744 20

To George R. Newman & Co.

383.	Sept.	23,	1896,	*Grove street, from Almy to Courtland,*	$568 38
386.	"	"	"	*Franklin, Lyman and Dean streets,* .	1,533 45

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During the quarter the construction of the following sewers was completed, namely:

No. of resolution.	Date of approval.				Date of Completion.
148.	April	9,	1896,	*In line of Blackstone street, from Allen's avenue, easterly,* . . .	July 10, 1896
151.	"	"	"	*Hope street, from East avenue to Thayer street,* . .	Aug. 12, 1896
230.	May	26,	"	*Harris avenue, from Grove street to north of Atwell's avenue,*	Aug. 20, 1896
249.	"	29,	"	*President avenue and Blackstone boulevard,* . . .	Aug. 22, 1896
250.	"	"	"	*Globe street, from Beacon avenue to Plain street,* . .	Aug. 15, 1896
251.	"	"	"	*Harriet and Sayles streets,*	Aug. 26, 1896
252.	"	"	"	*Liberty street, from Smith street northerly,*	July 22, 1896
287.	June	24,	"	*Francis, Lincoln and Gaspee streets,*	July 24, 1896
302.	"	27,	"	*Broad and Colfax streets,*	Sept. 16, 1896
304.	"	"	"	*Felix street, from Chalkstone avenue to Valley street,* .	Sept. 16, 1896
305.	"	"	"	*Jewett street, from Park to Holden,* .	Sept. 22, 1896
306.	"	"	"	*Thayer street, from Arnold to Transit,*	Aug. 28, 1896

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At the close of the quarter, work upon the following sewers of the improved sewerage system was in progress, namely:

No. of resolution.	Date of approval.	
406.	July 15, 1889,	*Section 4, Disposal Division, Improved Sewerage system—Condensing Water Intake.*
406.	" " "	*Section 4, Disposal Division, Improved Sewerage system—Dredging for Condensing Water Intake.*
505.	Nov. 8, 1895,	*Elmgrove, Irving and Wayland avenues.*
159.	April 17, 1896,	*Davis Park and Pleasant Valley Division, Improved Sewerage System.*

Work upon the following lateral sewers was in progress at the close of the quarter, namely:

No. of resolution.	Date of approval.	
303.	June 27, 1896,	*Burrington street and Jackson avenue.*
388.	Sept. 23, 1896,	*Milk and Richardson streets, Prairie avenue and Broad street.*

Work upon the following sewers, completing the work ordered by the city council, had not commenced September 30, 1896, namely:

No. of resolution.	Date of approval.	
572.	Dec. 20, 1895,	*Moshassuck River and West River Divisions, Improved Sewerage System.*
382.	Sept. 23, 1896,	*Esten street, from Orms to Smith.*
383.	" " "	*Grove street, from Almy to Courtland.*

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No. of resolution.	Date of approval.	
384.	Sept. 23, 1896,	*Paine street, from Cranston to Messer.*
385.	" " "	*University avenue, from Slater to Blackstone Boulevard.*
386.	" " "	*Franklin, Lyman and Dean streets.*
387.	" " "	*Ruggles street and Chalkstone avenue.*
389.	" " "	*Chalkstone avenue, Lisbon street and Regent avenue.*
390.	" " "	*Baxter, Gladstone and Ontario streets.*

The amount of bills approved on account of sewers from July 1, to September 30, 1896, inclusive, was as follows:

FOR CONSTRUCTION.

Regular appropriation	$27,378 81	
Improved sewerage appropriation	50,398 41	
		$77,777 22

Charged as follows:

Material	$9,868 82
Contract Reservations	3,761 36
Salaries of assistant engineers	1,161 50
Additional catch-basins	269 25
Sundries, improved sewerage system	234 61
Testing cement	232 47
Sundries	144 30
Tools	84 25
Sewer in line of Blackstone street, from Allen's avenue easterly	1,665 82
Sewer in Broad and Oxford streets	1,262 94
Sewer in Burrington street and Jackson avenue	711 90
Sewer in Felix street, from Chalkstone avenue to Valley street	1,073 21
Sewer in Francis, Lincoln and Gaspee streets	2,780 77
Sewer in Globe street, from Beacon avenue to Plain street	343 57
Sewer in Harriet and Sayles streets	705 77
Sewer in Harris avenue, from Grove street to north of Atwell's avenue	6,596 77
Amount carried forward	$30,897 31

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Amount brought forward	$30,897 31	
Sewer in Hope street, from East avenue at Olney street to Thayer, near Hope	3,043 75	
Sewer in Jewett street, from Park to Holden	371 56	
Sewer in Liberty street, from Smith northerly	196 62	
Sewer in Milk and Richardson streets, Prairie avenue and Broad street	20 98	
Sewer in President avenue and Blackstone Boulevard	2,648 22	
Sewer in Thayer street, from Arnold to Transit	386 26	
Sewer in Wheaton and South Court streets	8 75	
Sewer in Disposal Division, Section 4	10,237 06	
Sewer in Elmgrove, Irving and Wayland avenues.	14,413 13	
Sewer in Pleasant Valley Division, Section 19	12,385 88	
Sewer in Siphon Division, Section 16	1 08	
Brick buildings and chimney for sewage pumping station	2,005 96	
Dredging channel for condensing water intake	1,050 80	
Foundation for sewage pumping station	2 80	
Holly sewage pumping engines	107 06	
	$77,777 22	

For maintenance: $11,755 98

Charged as follows:

Cleaning basins and sewers	$5,079 34
Repairing basins and sewers	3,346 47
Cleaning and repairing old drains	1,337 91
Inspection of connections	634 66
Tools	424 07
Salary—superintendent	405 00
Barn expenses	324 13
Horses, wagons, harnesses, etc	112 51
Cleaning private connections	38 00
Telephone lines	23 33
Office expenses	19 11
Sundries	11 45
	$11,755 98

The *net* expenditure for construction of sewers to September 30, 1896, inclusive, was $5,783,300 89

The *net* expenditure for maintenance of sewers to September 30, 1896, inclusive, was $499,567 44

Bills deposited with the city treasurer for collection from July 1 to September 30, 1896, inclusive, amounted to $828 76

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As follows:

Rebuilding manholes for Union Railroad Co.	$242 90
Hoisting engine and pump	175 00
Cleaning private connections	54 00
Filling cisterns, etc	31 60
Sewer material	277 26
Laying drains to curbstone	46 00
Testing cement	2 00
	$828 76

During the quarter coupons from bills collected have been returned by the city treasurer and receipted for, amounting to $653 56

As follows:

Hoisting engine and pump	$175 00
Filling cisterns, etc	70 30
Cleaning private connections	56 25
Building track inlet for New England Railroad Co.	25 00
Puddling sewer trench	1 75
Sewer material	277 26
Laying drains to curbstone	46 00
Testing cement	2 00
	$653 56

The amount of bills approved on account of sewers for the fiscal year, ending September 30, 1896, inclusive, was:

FOR CONSTRUCTION.

Regular appropriation	$106,738 31	
Improved sewerage appropriation	282,945 63	
		$389,683 94

Charged as follows:

Material	$40,273 34
Contract reservations	19,819 00
Salaries of assistant engineers	10,224 39
Sundries, improved sewerage system	1,533 20
Sundries	825 76
Testing cement	825 67
Additional catch-basins	659 65
Tools	109 55
Laying drains to curbstone	12 09
Amount carried forward	$74,282 65

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Amount brought forward	$74,282 65
Sewer in Adelaide avenue, from near Melrose street to Hamilton	421 91
Sewer in Althea street, from Cranston to Union avenue	1,318 06
Sewer in Andem street, from Academy avenue to Carleton street	688 97
Sewer in line of Blackstone street from Allen's avenue easterly	8,765 31
Sewer in Broad and Oxford streets	1,262 94
Sewer in Burrington street and Jackson avenue	711 90
Sewer in Camp street, from Doyle avenue to Howell street	1,059 03
Sewer in Chester avenue, from Milk street to Prairie avenue	255 69
Sewer in Dexter street, from Miller to Cranston	2,247 82
Sewer in Felix street, from Chalkstone avenue to Valley street	1,073 21
Sewer in Francis, Lincoln and Gaspee streets	2,878 57
Sewer in Francis street, northerly from West Exchange	3,033 29
Sewer in Globe street, from Beacon avenue to Plain street	343 57
Sewer in Goddard street, from Douglas avenue to Candace street	2,252 19
Sewer in Grand avenue, from Angell street to Oriole avenue	339 05
Sewer in Harriet and Sayles streets	705 77
Sewer in Harris avenue, from Acorn street to Woonasquatucket river	26,751 90
Sewer in Harris avenue from Grove street to north of Atwell's avenue	6,596 77
Sewer in Hope street, from East avenue at Olney street to Thayer, near Hope	5,152 00
Sewer in Jewett street, from Park to Holden	371 56
Sewer in Liberty street, from Smith northerly	196 62
Sewer in Melrose, Broad, Early and Colfax streets.	1,929 49
Sewer in Milk and Richardson streets, Prairie avenue and Broad street	20 98
Sewer in Norwich avenue, from Broad street to Baxter	945 66
Sewer in Pierce street, from Courtland to Marshall	276 65
Sewer in President avenue and Blackstone boulevard	2,648 22
Sewer in Rhode Island and Grand avenues	1,867 96
Sewer in Roger Williams Park, Miller avenue and Broad street	2,907 27
Sewer in Stanwood street, from Hamilton to Public	1,105 48
Sewer in Sycamore street, from near Willow to Hudson	255 75
Amount carried forward	$152,666 24

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Amount brought forward	$152,666	24
Sewer in Thayer street, from Arnold to Transit	386	26
Sewer in Van Zandt street, from Jackson avenue to Hamburg	593	46
Sewer in Wheaton and South Court streets	3,124	33
Sewer in Wellington street, from East Beacon to Pearl	406	65
Sewer in Allen's avenue Division, Section 10	13,672	96
Sewer in Allen's avenue Division, Section 11	6,974	73
Sewer in Disposal Division, Section 3	4,507	88
Sewer in Disposal Division, Section 4	10,243	06
Sewer in Elmgrove, Irving and Wayland avenues	28,170	82
Sewer in Moshassuck river Division, Section 17	7,989	60
Sewer in Moshassuck river Division, Section 18	37,423	21
Sewer in Norfolk and Station streets	561	46
Sewer in Pleasant Valley Division, Section 19	12,385	88
Sewer in Siphon Division, Section 15	4,022	11
Sewer in Siphon Division, Section 16	8,967	78
Brick buildings and chimney for sewage pumping station	61,172	77
Dredging channel for condensing water intake	1,050	80
Foundation for sewage pumping station	19,253	06
Grading Norfolk street, from Oak to Cranston	5,720	14
Holly sewage pumping engines	6,071	25
Steel roof for sewage pumping station	4,319	49
	$389,683	94

For Maintenance. $39,485 11

Charged as follows:

Cleaning basins and sewers	$14,661	56
Repairing basins and sewers	11,974	45
Cleaning and repairing old drains	3,973	38
Inspection of connections	2,626	26
Tools	1,915	78
Salary—superintendent	1,570	00
Barn expenses	1,402	11
Horses, wagons, harnesses, etc	845	37
Cleaning private connections	174	40
Office expenses	153	03
Filling cisterns, etc	95	46
Sundries	61	23
Telephone lines	23	33
Removing buildings to new city yard	8	75
	$39,485	11

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HIGHWAYS.

Four permits to open streets were issued during the quarter.

July 1st, the offer of Smithfield Granite Company to reduce the width of the granite sidewalks on Washington and Fulton streets, adjoining the city hall, was accepted. Amount $3,295.00.

July 10th, the offer of Pomroy Coal Company to furnish George's Creek or Pocahontas coal, at their yard, was accepted.

August 5th, the proposal of the Narragansett Improvement Company to lay a Trinidad Pitch Lake asphalt pavement in Washington, Snow and Fulton streets was accepted and a contract subsequently executed.

Sept. 5th, the proposal of the Narragansett Improvement Company to lay a Trinidad Pitch Lake asphalt pavement in Union street, from Westminster street to Weybosset street, was accepted and a contract subsequently executed.

July 31st, curbing bills were certified to the assessors of taxes, aggregating $17,913.78.

During the quarter the following work was completed:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.	
May 16, 1895,	*Harris avenue, from Kinsley to Acorn street, and from Acorn to Eagle.*
June 20, "	*Autumn street, from Eddy to Rugby.*
" " "	*Gordon avenue from Oxford street to Gallup.*
Sept. 19, "	*Huntington avenue, from Cranston street to Union avenue.*
" " "	*River avenue, from Chalkstone to the brook on River avenue.*

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Date of order.

Sept. 19, 1895, *Marlborough street, from East Beacon to Pearl.*

" " " *Forest street, from Ivy to East avenue.*

" " " *Linwood avenue, from Cranston street to Union avenue.*

May 21, 1896, *Goddard street, from Douglas avenue to Candace street.*

Aug. 6, " *Gaspee street, from the first angle south of Smith to Francis.*

TO BE PAVED WITH GRANITE BLOCKS.

No. of resolution. Date of approval.

151. April 5, 1895, *Kinsley avenue, from Gaspee street to Harris avenue.*

151. " " " *Harris avenue, from Kinsley to Eagle street.*

151. " " " *Gaspee street, from Kinsley avenue to first angle east of Francis street.*

TO REDUCE WIDTH OF SIDEWALKS.

271. June 19, 1896, *Fulton and Washington streets, adjoining city hall.*

TO BE PAVED WITH TRINIDAD ASPHALT.

347. Sept. 2, 1896, *Union street from Westminster to Weybosset.*

The following work was in progress September 30, 1896, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.

May 16, 1895. *Francis street, from Cove street and Exchange place to Gaspee street*—one-half completed.

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Date of order.	
May 16, 1895,	*Promenade street, from present end of pavement near railroad bridge to Steeple street*—one-half completed.

TO BE PAVED WITH TRINIDAD ASPHALT.

No. of resolution.	Date of approval.	
261.	June 2, 1896.	*Washington street, from Walker to Dorrance*—in process.
261.	" " "	*Snow street, from Washington to Westminster*—in process.
282.	" 24, "	*Fulton street, from Eddy to Dorrance*—in process.
283.	" " "	*Washington street, from Eddy to Dorrance*—in process.

TO GRADE AND PUT IN GOOD CONDITION.

315.	July 7, 1896,	*Allen's avenue, from Public street to Henderson.*

The following work, ordered by the board of aldermen and city council, had not commenced September 30, 1896, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.	
Sept. 19, 1895,	*Lisbon street, from Chalkstone avenue to Regent.*
May 21, 1896,	*Globe street, from Beacon avenue to Plain street.*
" " "	*Blackstone street, from Eddy to Allen's avenue.*
" " "	*Beach street, from Park to Holden.*
June 18, "	*Blackstone street, north side, from Plain to Culver.*

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Date of order.	
June 18, 1896.	*Fuller street, from Wilson to Sprague.*
Sept. 17, "	*Althea street, from Cranston to Union avenue.*
" " "	*Chambers street, from Huntington avenue to Potter's.*
" " "	*Lillian avenue, from Broad street, to Baxter.*
" " "	*Norwich avenue, from Broad street to Baxter.*
" " "	*Osborn street, from Vale to Chalkstone avenue.*
" " "	*Van Zandt street, from Jackson avenue to Hamburg.*
" " "	*Westfield street, from Harrison to Fuller.*
" " "	*Whitney street, from Elmwood avenue to Alger.*
" " "	*Silver Spring street, from Ashton to Branch avenue.*
" 23, "	*Dunwell's gangway, from Weybosset street to Dyer.*

To Take Possession.

Aug. 27, 1896,	*Huntington avenue, from Chambers street to Carter.*

To be Paved with Granite Blocks.

No. of resolution.	Date of approval.	
151.	April 5, 1895.	*Gaspee street, from Cove to the railroad bridge abutment.*
151.	" " "	*Francis street, from Cove and Exchange place to Gaspee street.*
151.	" " "	*Promenade street, from present end of pavement near railroad bridge to Steeple street.*
151.	" " "	*The two approaches to the proposed depot in Exchange place.*

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To be Paved with Granite Blocks and Cobble Stones.

No. of resolution. Date of approval.

543. Dec. 17, 1895, *Eddy street, from Henderson to Public.*

Bills approved on account of highways from July 1 to September 30, 1896, inclusive, amounted to:

Regular appropriation	$65,804 82	
Special appropriation	60,773 43	
Special credit appropriation	5,326 22	
		$131,904 47

Classified as follows:

Cleaning streets	$19,140 07	
Repairs on unpaved streets	17,919 60	
Repairs on paved streets	13,726 22	
Crushed stone—material and labor	4,892 75	
Blacksmith and wheelwright shop	2,258 89	
Barn expenses	2,085 20	
Tools, implements, etc	1,474 02	
Labor on material	893 50	
Horses, wagons, harnesses, etc	633 63	
Steam rollers—repairs and supplies	500 74	
Repairs on stone crushers	494 39	
Building driveways, etc	489 44	
Salaries—superintendent and clerks	461 43	
Watering streets	186 00	
Watchman at city yard	162 86	
Sundries	128 05	
Reservation fund	62 00	
Fencing streets—material and labor	38 50	
Telephone lines	23 33	
Office expenses—city yard	20 60	
		$65,541 22

New Work—Building and Re-building Streets, Etc.

Sidewalks Curbed and Gutters Paved.

Autumn street, from Eddy to Rugby	$1,267 65
Forest street, from Ivy to East avenue	1,547 22
Globe street, from Beacon avenue to Plain street	252 85
Goddard street, from Douglas avenue to Candace street	1,572 34
Gordon avenue, from Oxford street to Gallup	1,329 30
Amount carried forward	$5,969 36

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Amount brought forward	$5,969 36	
Huntington avenue, from Cranston street to Union avenue	3,848 50	
Linwood avenue, from Cranston street to Union avenue	2,293 59	
Marlborough street, from East Beacon to Pearl	1,225 96	
River Avenue, from Chalkstone to the brook on River avenue	4,730 40	
		$18,067 81

PAVE WITH GRANITE BLOCKS.

Dyer street, from Ship to end of pavement near Friendship	$10 80	
Francis street, from Cove and Exchange Place to Gaspee street	3,718 81	
Gaspee street, from Kinsley avenue to first angle east of Francis street	13,985 97	
Harris avenue, from Kinsley to Eagle street	18,845 02	
Kinsley avenue, from Gaspee street to Harris avenue	1,124 66	
Peck street, from Weybosset to Dyer	1,723 54	
Promenade street, from present end of pavement near railroad bridge to Steeple street	512 99	
		$39,921 79

PAVE WITH GRANITE BLOCKS AND COBBLE.

Eddy street, from Henderson to Public	$3,779 00

PAVE WITH TRINIDAD ASPHALT.

Fulton street, from Eddy to Dorrance	$138 28	
Snow street, from Washington to Westminster	113 45	
Union street, from Westminster to Weybosset	1,286 23	
Washington street, from Walker to Dorrance	1,911 40	
		$3,429 36

TO GRADE AND PUT IN GOOD CONDITION.

Allen's avenue, from Henderson street to Public	325 60

TO REBUILD.

Benefit street, from Wickenden to North Main	839 69
	$131,904 47

Bills deposited with the city treasurer for collection from July 1, to September 30, 1896, inclusive, amounted to $29,675 94

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As follows:

Labor and materials	$23,008 24
Union Railroad Co., for granite blocks, etc	5,290 34
Boarding horses for other departments	602 55
Blacksmithing done for other departments	451 89
New England Railroad Co., for granite blocks, etc.	134 92
Manure from barn	75 00
Discharging cargoes at city wharf	50 00
Street sweepings	46 00
Removing trees	15 00
Old shovels	2 00
	$29,675 94

During the quarter coupons from bills collected have been returned by the city treasurer and receipted for, amounting to . . . $33,807 52

As follows:

Labor and materials	$23,004 51
Union Railroad Co., for granite blocks, etc	9,341 35
Blacksmithing done for other departments	436 96
Boarding horses for other departments	321 71
Manure from barn	75 00
Street sweepings	61 00
Discharging cargoes at city wharf	50 00
Removing trees	15 00
Old shovels	2 00
	$33,807 52

Bills approved on account of highways for the fiscal year ending September 30, 1896, inclusive, amounted to:

Regular appropriation	$214,924 35	
Special appropriation	197,879 72	
Special credit appropriation	15,134 72	
		$427,938 79

Classified as follows:

Cleaning streets	$52,806 34
Repairs on unpaved street	48,011 70
Crushed stone—material and labor	31,412 28
Repairs on paved streets	19,875 16
Amount carried forward	$152,105 48

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Amount brought forward	$152,105 48	
Barn expenses	9,500 40	
Tools, implements, etc	8,367 96	
Screening gravel	7,943 99	
Blacksmith and wheelwright shop	7,773 92	
Labor on materials	5,907 58	
Steam rollers, repairs and supplies	3,651 95	
Removing snow and ice	3,619 71	
Repairs on stone crushers	2,445 44	
Salaries, superintendent and clerks	1,781 76	
Horses, wagons, harnesses, etc	1,361 97	
Building driveways, etc	1,099 94	
Watchman at city yard	628 86	
Fencing streets, material and labor	500 07	
Sundries	461 28	
Watering streets	375 23	
Office expenses, city yard	212 26	
Reservation fund	62 00	
New brick workshop—to build	55 13	
Telephone lines	23 33	
Repairing sidewalks and driveways opposite Public buildings	16 00	
		$207,894 26

New Work—Building and Rebuilding Streets, Etc.

Sidewalks Curbed and Gutters Paved.

Aborn street, from Cedar to West Exchange	$1,224 36	
Autumn street, from Eddy to Rugby	1,267 65	
Avenue deeded to the city, adjoining Roger Williams Park, from Broad street, to its westerly termination	4,667 72	
Forest street, from Ivy to East avenue	2,290 90	
Frank street, from Plain to Beacon avenue	1,061 24	
Fruit street, from Broad to Gordon avenue	114 50	
Globe street, from Beacon avenue to Plain street	252 85	
Goddard street, from Douglas avenue to Candace street	2,499 37	
Gordon avenue, from Oxford to Gallup	1,329 30	
Greeley street, from Charles to Opper	1,680 72	
Huntington avenue, from Cranston street to Union avenue	4,119 23	
Linwood avenue, from Cranston street to Union avenue	3,179 44	
Marlborough street, from East Beacon to Pearl	1,237 16	
Orchard street, from Oxford to Fruit	44 62	
Plum street, from Oxford to Fruit	42 16	
Reynolds avenue, from Broad street to Taylor	2,127 82	
Amounts carried forward	$27,159 04	$207,894 26

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Amounts brought forward.....	$27,159 04	$207,894 26
Rhodes street, from Eddy to Allen's avenue.....	1,609 68	
River avenue, from Chalkstone to the brook on River avenue.....	7,575 23	
Silver Spring street, from Branch avenue to Charles street.....	3,065 41	
Sims avenue, from Harris to Kinsley.....	1,302 09	
West River street, from Branch avenue to bridge, north of McKenna street.....	1,737 99	
Wood street, from Ellery to Huntington avenue.....	1,035 98	
		43,485 40

PAVE WITH GRANITE BLOCKS.

Clifford street, from Richmond to Dyer.....	2,637 88	
Cove street, from Sabin to West Exchange.....	16,176 84	
Dorrance street, from end of pavement near Pine to Dyer.....	3,560 92	
Dyer street, from Ship to end of pavement near Friendship.....	14,881 58	
Francis street, frove Cove and Exchange place to Gaspee street.....	3,718 81	
Friendship street, from Chestnut to Dyer.....	3,357 26	
Gaspee street, from Cove to railroad bridge abutment	800 86	
Gaspee street, from Kinsley avenue to first angle east of Francis street.....	15,173 50	
Harris avenue, from Kinsley to Eagle street.....	39,244 08	
Hay street, from Weybosset to Friendship.....	2,600 38	
Kinsley avenue, from Gaspee street to Harris avenue	9,631 72	
Orange street, from Weybosset to Dyer.....	3,103 70	
Peck street, from Weybosset to Dyer.....	4,382 47	
Pine street, from Beacon avenue to Hay street.....	11,007 44	
Promenade street, from present end of pavement near railroad bridge to Steeple street.....	512 99	
Traverse street, from Wickenden to Pike.....	2,656 47	
Washington street, from Eddy to Walker.....	2,585 01	
		136,031 91

PAVE WITH GRANITE BLOCKS AND COBBLE.

Eddy street, from Henderson to Public.....		3,779 00

PAVE WITH TRINIDAD ASPHALT.

Fulton street, from Eddy to Dorrance.....	$138 28	
Snow street, from Washington to Westminster.....	113 45	
Union street from Westminster to Weybosset.....	1,266 23	
Washington street, from Walker to Dorrance.....	2,402 67	
		3,920 63

TO GRADE AND PUT IN GOOD CONDITION.

Allen's avenue, from Henderson street to Public....	$325 60	
Maryland avenue, from New York to Massachusetts	287 86	
Amounts carried forward.....	$613 46	$391,332 20

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Amounts brought forward	$613 46	$391,332 20
Massachusetts avenue, from Broad street to Maryland avenue	2,959 02	
Virginia avenue, from New York to Montgomery	286 48	
Washington avenue, from Broad street to Maryland avenue	1,733 54	
		5,592 50
TO BUILD.		
East avenue, from Olney street to Rochambeau avenue	$7,139 61	
East River street, including Waterman to the new bridge	3,919 80	
Pitman street, from Wayland avenue to East River street	6,030 15	
		17,089 56
TO REBUILD.		
Benefit street, from Wickenden to North Main		10,145 53
		$427,938 79

SIDEWALKS AND CURBING.

The expenditures on account of sidewalks and curbing from July 1 to September 30, 1896, inclusive, amounted to $15,348 88

Charged as follows:

Granite curbing	$7,960 21	
Concreting sidewalks	3,505 24	
Fulton and Washington streets—reducing width of of sidewalks adjoining city hall	3,301 29	
Setting curbing around schoolhouses and fire stations	582 14	
		$15,348 88

Curbing bills deposited with the city treasurer for collection from July 1, to September 30, 1896, inclusive, amounted to $476 81

During the quarter coupons from curbing bills collected have been returned by the city treasurer and receipted for, amounting to . . $1,678 24

The expenditures on account of sidewalks and curbing for the fiscal year ending September 30, 1896, inclusive, amounted to . . $35,633 31

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Charged as follows:

Granite curbing	$21,479 19
Concreting sidewalks	10,270 69
Fulton and Washington streets—reducing width of sidewalks adjoining city hall	3,301 29
Setting curbing around schoolhouses and fire stations	582 14
	$35,633 31

CITY ENGINEER.

Bills approved on account of the city engineer's department from July 1, to September 30, 1896, inclusive, amounted to $11,960 92

Charged as follows:

Salaries of assistants	$10,433 66
Salaries of clerks	793 12
Car fares	411 20
Supplies—drawing material, etc.	257 99
Instruments and repairs	42 13
Telephone lines	11 67
Sundries	11 15
	$11,960 92

Bills deposited with the city treasurer for collection from July 1, to September 30, 1896, inclusive, amounted to $1 45

As follows:

One transit book	60
Draughting on harbor chart	50
Blue process paper	35
	$1 45

During the quarter coupons for bills collected have been returned by the city treasurer and receipted for, amounting to $1 45

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As follows:

One transit book	60
Draughting on harbor chart	50
Blue process paper	35
	$1 45

Bills approved on account of the city engineer's department for the fiscal year ending September 30, 1896, inclusive, amounted to . . . $46,546 34

Charged as follows:

Salary—city engineer	$3,500 00
Salaries of assistants	36,902 40
Salaries of clerks	3,034 58
Supplies—drawing material, etc	1,423 64
Car fares	1,266 40
Instruments and repairs	328 03
Sundries	67 47
Telephone lines	11 67
Meteorological instruments and repairs	10 15
Horse hire, etc	2 00
	$46,546 34

BRIDGES.

July 10th, the offer of Pomroy Coal Company to deliver at bridges, George's Creek or Pocahontas lump coal was accepted.

July 17th, the offer of Thomas W. Reilly for granite masonry for Promenade street bridge over the Moshassuck river was accepted.

August 5th, the proposal of The Narragansett Improvement Company to lay a Trinidad Pitch Lake asphalt pavement on the Promenade street bridge over the Moshassuck river, and Exchange bridge, was accepted and a contract subsequently executed.

During the quarter the following work was completed, namely:

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No. of resolution.	Date of approval.	
511.	Sept. 25, 1894,	*Red bridge, over the Seekonk river.*
89.	Feb. 26, 1895,	*Washington row bridge.*
252.	June 7, "	*Promenade street bridge over the Moshassuck river.*
346.	July 10, "	*Exchange bridge, over the Providence river.*

The following work was in progress at the end of the the quarter, namely:

No. of resolution.	Date of approval.	
48.	Jan. 19, 1894,	*New city yard, Henderson street:* —to grade and fence.

Bills approved on account of bridges from July 1, to September 30, 1896, inclusive, amounted to $30,673 98

Charged as follows:

Barn expenses	$80 26
Branch avenue culvert	1 85
Building at city yard	30
Burnside bridge	203 81
Central or Red bridge	270 29
Crawford street bridge	717 15
Eagle street bridge	7 23
Exchange bridge—to rebuild	24,475 74
Francis street bridge	464 20
Horses, wagons, harnesses, etc	36 78
Lumber, hardware, etc	4 60
Point street bridge	682 27
Promenade street bridge, over Moshassuck river—to build	889 12
Rent of keeper's house, Washington bridge	30 00
Salaries—Central or Red bridge	533 25
Salaries—Point street bridge	1,063 25
Salaries—Washington bridge	533 64
Smithfield avenue bridge	3 51
Sundries	128 75
Telephone lines	11 67
Tools	127 87
Amount carried forward	$30,265 54

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Amount brought forward	$30,265 54
Washington bridge	196 44
Washington Row bridge—to rebuild	147 09
West River street bridge	56 38
Weybosset bridge	5 73
Whelden street bridge	2 80
	$30,673 98

During the quarter coupons from bills collected for lumber sold, have been returned by the city treasurer and receipted for, to the amount of $51 55

Bills approved on account of bridges for the fiscal year ending September 30, 1896, inclusive, amounted to $114,694 84

Charged as follows:

Barn expenses	$358 47
Branch avenue culvert	1 85
Building at city yard	28 28
Burnside bridge	278 57
Central or Red bridge	756 08
Crawford street bridge	4,624 91
Eagle street bridge	7 23
Exchange bridge—to rebuild	62,203 84
Francis street bridge	464 20
Gaspee street bridge	120 62
Horses, wagons, harnesses, etc	155 08
Lumber, hardware, etc	107 30
Point street bridge	2,075 04
Promenade street bridge, over Moshassuck river—to build	14,908 03
Rent of keeper's house, Washington bridge	120 00
Salaries—Central or Red bridge	1,503 50
Salaries—Point street bridge	3,985 75
Salaries—Washington bridge	1,966 06
Smithfield avenue bridge	3 51
Sundries	466 32
Tar bridge—Manton avenue	9 01
Telephone lines	11 67
Tools	559 87
Valley street culvert	569 14
Wanskuck bridge	18 15
Amount carried forward	$95,302 48

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Amount brought forward	$95,302 48
Washington bridge	800 97
Washington row bridge—to rebuild	18,513 98
West River street bridge	56 38
Weybosset bridge	17 23
Whelden street bridge	3 80
	$114,694 84

Bills approved for the construction of the new Red bridge have been paid from the special appropriation for that work as follows:

From July 1 to September 30, 1896, inclusive	$6,499 30
For the fiscal year ending September 30, 1896	41,801 88

PUBLIC WORKS OFFICE.

Bills approved from July 1, to September 30, 1896, inclusive, for account of the public works office, amounted to $5,047 67

Charged as follows:

Salaries of commissioner and secretary	$1,925 00
Salaries of office assistants	2,915 74
Office supplies	206 93
	$5,047 67

Bills approved for account of the public works office for the fiscal year ending September 30, 1896, inclusive, amounted to $20,208 69

Charged as follows:

Salaries of commissioner and secretary	$7,700 00
Salaries of office assistants	11,915 87
Office supplies	592 82
	$20,208 69

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FILLING COVE BASIN.

Bills approved during the fiscal year ending September 30, 1896, inclusive, for building the Promenade street bridge, over the Moshassuck river, have been paid for from the appropriation for filling the cove basin, to the amount of . . $5,580 28

CONTINGENCIES.

Bills approved for grading and fencing the new city yard have been paid during the fiscal year ending September 30, 1896, inclusive, from the appropriation for contingencies, to the amount of $39 38

ROBERT E. SMITH,

Commissioner.

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REPORT OF THE COMMISSIONERS

TO

LAYOUT AND EXTEND

LEXINGTON AVENUE

FROM NIAGARA STREET TO BROAD STREET.



REMINGTON PRINTING CO., CITY PRINTERS,
63 Washington Street.
1896.

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REPORT.

PROVIDENCE, SC.

To the Honorable the Common Pleas Division of the Supreme Court now holden at Providence, within and for the County of Providence, September Session, A. D. 1896.

The undersigned, appointed at the September Session of said Court, A. D. 1895, Commissioners of Estimate and Assessment, under and according to an act entitled "An act in relation to the laying out, enlarging, straightening or otherwise altering streets in the City of Providence, upon the application of the City Council of the City of Providence, representing that it is desirable and necessary to lay out and extend Lexington avenue from the westerly line of Niagara street to Broad street, making the northerly and southerly lines of the same as laid out and extended to range with the corresponding lines of the portion of said Lexington avenue between Niagara and Hamilton streets, respectfully report:

That said commissioners having been first severally engaged to the faithful performance of the trusts and duties required of them, under their commission, as is duly certified thereon, they, on the 18th day of April, 1896, proceeded to the place of such layout and extension, and after viewing the premises required for the same, caused a survey and plat to be made thereof and of the estates which in their judgment are especially interested in said layout and extension, which plat is herewith returned and made a part of this report.

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That subsequently they caused notice to be given to all persons interested in said lands, tenements, hereditaments and premises required for the said laying out and extension, and to all persons who are the owners of lands, tenements, hereditaments and premises which are, in the opinion of said commissioners, benefited thereby, of the time and place of making an estimate of the value of the property so required, and of the benefits conferred by publishing when and where such estimate and assessment was to be made, during the space of three weeks, in *The Evening Bulletin*, the *Manufacturers and Farmers' Journal* and *The Providence News*, three newspapers printed in said Providence, a copy of which published notice is hereto annexed, marked "A."

That pursuant to such notice they met at the time and place therein named, and at said meeting all persons interested had full opportunity to be heard in relation to said laying out and extension, and, after hearing all parties who appeared and desired to be heard, they proceeded to make the estimate and assessment of loss and damage and of benefit and advantage, as required of them by said Act and their said commission, as follows:

In order to lay out and extend Lexington avenue from the westerly line of Niagara street to Broad street, as proposed by the said City Council aforesaid, and as delineated on the plat above referred to, it will be necessary to take from the following lot numbered on said plat to correspond with the number of the same lot on assessors' plat number 53 the number of square feet set opposite said lot, that is to say:

	Sqpare feet.
From lot 399 on plat 53, belonging one-third to Frances E. Hill, wife of Charles E. Hill, one-third to Laura A. Burgess and one-third to Jennie L. Knowlton of Pawtucket, residuary devisee and executrix under the will of Martha L. Davis (Charles E. Hill and Charles E. Holmes, administrators of the estate of Wanton A. Weaver, mortgagees), eleven thousand, five hundred and sixty-six square feet....	11,566

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And the undersigned estimate and report the excess of loss and damage to the owners and parties interested in said estate by reason of said laying out and extension of said Lexington avenue, over and above all benefit and advantage therefrom accruing to them as such owners and parties interested, to be as follows:

To Frances E. Hill, wife of Charles E. Hill, one-third: Laura A. Burgess, one-third; Jennie L. Knowlton of Pawtucket, residuary devisee and executrix under the will of Martha L. Davis, one-third (Charles E. Hill and Charles E. Holmes, administrators of the estate of Wanton A. Weaver, mortgagees), on lot 399, plat 53.. ..... $5,204 70

And the undersigned further estimate, assess and report the value of the benefit of each lay-out and extension to the owners, lessees, parties and persons respectively interested in the estates hereinafter enumerated, which are not required for such lay-out and extension, but which in the opinion of the undersigned are benefited thereby, in respect to the said lands, tenements, hereditaments and premises, to be the several amounts set opposite to and assessed upon said estates and the names of said persons and parties respectively.

And the undersigned further report that in accordance with the directions in the commission issued to them they have apportioned and assessed three-fourths of said loss and damage estimated as aforesaid at the sum of five thousand, two hundred and four dollars and seventy cents, being the sum of three thousand, nine hundred and three dollars in the ratio of the benefit conferred by such laying out and extension, and do apportion and assess the same to the following persons in the amounts and for the estates designated, that is to say:

To Benjamin L. Dennis, Duty S. Mowry, mortgagee, on lot 898 plat 48..... $29 00

To William Trimble, the Providence Institution for Savings mortgagee, on lot 899, plat 48..... 42 00

To Benjamin L. Dennis, Duty S. Mowry, mortgagee, on lot 900, plat 48..... 34 00

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To Alva S. Mowry, on lot 901, plat 48	$23 00
To Benjamin L. Dennis, Duty S. Mowry, mortgagee, on lot 902, plat 48	13 00
To Benjamin L. Dennis, Duty S. Mowry, mortgagee, on lot 903, plat 48	13 00
To Ella V. Eddy, wife of Charles A. Eddy life tenant, Florence W. Eddy one half and Jennie M. Eddy one half on lot 5, plat 52	8 00
To Henry R. Barker, on lot 6, plat 52	12 00
To William Post of New York city, Bristol County Savings Bank, mortgagee, on lot 7, plat 52	10 00
To Hannah P. Elsbree, in right of dower in one half; Bernard McGuiness one fourth; Robert Brayton one fourth; Laura B. Sims, wife of Gardiner C. Sims, one fourth; Clara T. Parsons, wife of George Richmond Parsons, one fourth; Bernard McGuiness. mortgagee of one fourth; Robert Brayton, mortgagee of one fourth on lot 11, plat 52	1,103 00
To Job Wilbur on lot 12, plat 52	419 00
To Joseph P. Manton, Junior, William R. Randall, mortgagee, on lot 13, plat 52	21 00
To Jethro M. Hawes, Providence Mutual Fire Insurance Company, mortgagee, on lot 14, plat 52	25 00
To Harvey Howard Pepper and his wife, Mary R. Pepper, (George W. R. Matteson, Moses B. I. Goddard and Sophia Augusta Brown, trustees under the will of John Carter Brown, mortgagees) on lot 41, plat 52	6 00
To George H. Miner, on lot 46, plat 52	6 00
To James E. Taylor, Citizens Savings Bank, mortgagee, on lot 70, plat 52	6 00
To Joseph Baker, Junior, the Roger Williams Savings Fund and Loan Association, mortgagee, on lot 71, plat 52	6 00
To Christopher W. Clissold on lot 72, plat 52	6 00
To Sarah L. Humphreys and Amey R. Guild on lot 73, plat 52	4 00
To Sarah L. Humphreys and Amey R. Guild, on lot 74, plat 52	8 00
To Sarah L. Humphrey and Amey R. Guild on lot 75, plat 52	8 00
To Sarah L. Humphrey and Amey R. Guild, on lot 76, plat 52	9 00
To Henry R. Barker, on lot 77, plat 52	8 00
To Henry R. Barker, on lot 78, plat 52	8 00
To Henry R. Barker, on lot 79, plat 52	15 00
To Henry R. Barker, on lot 80, plat 52	20 00
To Henry R. Barker, on lot 81, plat 52	8 00

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To Franklin Cobb, the Providence Mutual Fire Insurance Company, mortgagee, Archibald M. Clarke of Slatersville, mortgagee, on lot 82, plat 52..... $25 00
To Jeanette S. Towle, on lot 83, plat 52..... 25 00
To Grace E. Lippitt, wife of Harry L. Lippitt, on lot 84, plat 52..... 30 00
To William E. Mitchell and wife Sarah J. Mitchell, on lot 85, plat 52..... 60 00
To Charles Edward Wood, on lot 86, plat 52..... 19 00
To William R. Babcock 2d, of Bristol, on lot 87, plat 52.. 15 00
To William R. Babcock 2d, of Bristol, on lot 88, plat 52.. 17 00
To George H. Grant (George W. R. Matteson, Moses B. I. Goddard and Sophia Augusta Brown trustees under the will of John Carter Brown, mortgagee,) on lot 113, plat 52. 38 00
To The Turnverein of Providence, R. I., on lot 121, plat 52 38 00
To Joseph E. Straker, on lot 123, plat 52..... 6 00
To William Buhler, on lot 124, plat 52..... 23 00
To Harriet Julia Spencer, wife of Charles W. Spencer, Citizens' Savings Bank, mortgagee, on lot 129, plat 52..... 14 00
To Walter T. Bentley, on lot 130, plat 52..... 12 00
To Annie E. Goodchild, wife of Jeremiah Goodchild, the Roger Williams Savings Fund and Loan Association, mortgagee, on lot 131, plat 52..... 12 00
To The Turnverein of Providence, R. I., on lot 132, plat 52..... 12 00
To Clara D. Hambly, wife of John H. Hambly, Ellen E. Olmstead, wife of George O. Olmstead, mortgagee, on lot 139, plat 52..... 6 00
To Asa W. Brown, on lot 140, plat 52..... 6 00
To Kate Bailey, wife of Edward Bailey, Citizens' Savings Bank, mortgagee, on lot 151, plat 52..... 6 00
To Edward Bailey, Citizen's Savings Bank, mortgagee, on lot 152, plat 52..... 9 00
To Joseph P. Corey, on lot 153, plat 52..... 19 00
To Valentine Germershausen, Mechanics' Savings Bank, mortgagee, on lot 155, plat 52..... 50 00
To William H. Luther, on lot 156, plat 52..... 9 00
To Olive B. Briggs, wife of Nathan A. Briggs, one half, Sidney S. Blaisdell one half, Citizens' Savings Bank, mortgagee, on lot 157, plat 52..... 6 00
To Foster N. Gunnison, Harold Brown of Newport, mortgagee, on lot 158, plat 52..... 19 00
To Frederick H. Field, Citizens' Savings Bank, mortgagee, on lot 159, plat 52..... 19 00
To Elizabeth C. Deane, wife of Samuel E. Deane, Mason W. Tillinghast, mortgagee, on lot 160, plat 52..... 19 00

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To Jethro M. Hawes, Providence Mutual Fire Insurance Company, mortgagee, on lot 161, plat 52	$25 00
To Albert F. Searle, on lot 162, plat 52	25 00
To Frank A. Dary, on lot 163, plat 52	25 00
To Fannie Maria Smith, on lot 164, plat 52	25 00
To Freeborn Johnson, on lot 165, plat 52	9 00
To Edward S. Aldrich, on lot 168, plat 52	13 00
To Louise M. Hopkins, Presbary Hoxie trustee under the will of Nicholas G. Hoxie, mortgagee, Walter F. Crowell of Boston, Mass., mortgagee, on lot 170, plat 52	21 00
To William E. Bowen, the Roger Williams Savings Fund and Loan Association, mortgagee, on lot 176, plat 52	50 00
To Stedman A. Randall, Citizens' Savings Bank, mortgagee, on lot 178, plat 52	50 00
To Eustace Crees, Citizens Savings Bank, mortgagee, on lot 181, plat 52	30 00
To William Post of New York City, Bristol County Savings Bank, mortgagee, on lot 189, plat 52	9 00
To William Post of New York City, Bristol County Savings Bank, mortgagee, on lot 190, plat 52	10 00
To William Post of New York City, Bristol County Savings Bank, mortgagee, on lot 191, plat 52	17 00
To William Post of New York City, Bristol County Savings Bank, mortgagee, on lot 192, plat 52	34 00
To William Post of New York City, Bristol County Savings Bank, mortgagee, on lot 193, plat 52	30 00
To Bertha Solothurman, wife of Frederick Solothurman, on lot 196, plat 52	19 00
To Sylvester Eastman, Citizens' Savings Bank, mortgagee, on lot 197, plat 52	12 00
To Mayanna Dobbin, Dighton, Massachusetts, Emily A. Walker, of said Dighton, mortgagee, N. Allen Walker of said Dighton, mortgagee, on lot 307, plat 52	14 00
To Frank K. Rogers, Charles A. Preston of Johnston, mortgagee, on lot 316, plat 52	30 00
To Lucy A. Collins, wife of Angelo Collins, the Roger Williams Savings Fund and Loan Association, mortgagee, on lot 318, plat 52	50 00
To William H. H. Swan, Thomas Grimes, mortgagee, on lot 320, plat 52	18 00
To Alfred H. Young of North Kingstown, Roscoe A. Yeaton and Millard E. Yeaton, lessees, on lot 33, plat 53	5 00
To Hattie Helme of Boston, Mass., one-third, Arthur W. Helme of Detroit, Michigan, one-third, Mary A. Helme, one-third, on lot 34, plat 53	9 00

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To Hattie Helme of Boston, Mass., one-third, Arthur W. Helme of Detroit, Michigan, one-third, Mary A. Helme, one-third, on lot 35, plat 53	$11 00
To Alfred H. Young of North Kingstown, Roscoe A. Yeaton and Mildred E. Yeaton, lessees, on lot 80, plat 53	4 00
To Mary A. Goff, wife of Ira N. Goff, Providence Institution for Savings, mortgagee, on lot 397, plat 53	28 00
To Frederick A. Brown, on lot 398, plat 53	23 00
To William A. Fiske, on lot 443, plat 53	42 00
To William A. Fiske, on lot 444, plat 53	43 00
To Frederick A. Brown, Julia H. Addison, of Cambridge, Massachusetts, mortgagee, on lot 445, plat 53	15 00
To Frederick A. Brown, Maria L. Duncan, wife of Thomas Duncan of Baltimore, Maryland, mortgagee, on lot 446, plat 53	15 00
To Frederick A. Brown, Elizabeth A. Fox, of Hollis, New Hampshire, mortgagee, on lot 447, plat 53	15 00
To Sarah P. Andrews, wife of Francis M. Andrews, Robert Harris of Pomfret, Connecticut, mortgagee, on lot 448, plat 53	15 00
To Sarah P. Andrews, wife of Francis M. Andrews, Robert Harris of Pomfret, Connecticut, mortgagee, on lot 449, plat 53	15 00
To Sarah P. Andrews, wife of Francis M. Andrews, on lot 450, plat 53	15 00
To Albert Loepsinger, Charles H. Dring of Fall River, Massachusetts, mortgagee, on lot 451, plat 53	15 00
To Moses C. Pillsbury, one half; Victoria Amelia Pillsbury, wife of said Moses, one half on lot 452, plat 53	15 00
To Eliza Swarts, Rhode Island Hospital Trust Company, mortgagee, on lot 453, plat 53	15 00
To Martin V. B. Searle, on lot 454, plat 53	15 00
To Martin V. B. Searle, on lot 455, plat 53	15 00
To William A. Fiske, on lot 456, plat 53	20 00
To Isrealla S. Angell, wife of James E. Angell, on lot 457, plat 53	15 00
To Frederick A. Brown, on lot 458, plat 53	30 00
To Frederick A. Brown, on lot 459, plat 53	40 00
To Frederick A. Brown, on lot 460, plat 53	80 00
To Ida F. Colwell, wife of Wilmarth H. Colwell, Frederick A. Brown, mortgagee, Mary W. Brown, wife of Frederick A. Brown, mortgagee, on lot 461, plat 53	80 00
To Frederick A. Brown, on lot 462, plat 53	80 00
To Frederick A. Wightman, on lot 463, plat 53	80 00
To Francis M. Andrews, on lot 464, plat 53	80 00
To Francis M. Andrews, on lot 465, plat 53	80 00

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To Francis M. Andrews, on lot 466, plat 53	$33 00
To Francis M. Andrews, on lot 467, plat 53	12 00
To Francis M. Andrews, on lot 468, plat 53	13 00
To William A. Fiske, on lot 469, plat 53	14 00
To William A. Fiske, on lot 470, plat 53	16 00
	$3,903 00

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The plat made for the use of the undersigned accompanies this report.

The undersigned herewith return the Commission issued to them by the court.

All of which is respectfully submitted,

CHARLES E. HARRIS,
GEORGE F. HOLROYD,
THOMAS H. LEONARD,
WILLIAM DUFFY,
ARTHUR P. SUMNER,

Commissioners.

PROVIDENCE, R. I., November 13, 1896.

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"A"

LAYOUT AND EXTENSION OF LEXINGTON AVENUE.

The undersigned, appointed by the Honorable, the Common Pleas Division of the Supreme Court, on the 15th day of February, 1896, Commissioners of Estimate and Assessment, under and according to the provisions of the act of the General Assembly, entitled "An act in relation to the laying out, enlarging, straightening or otherwise altering streets in the City of Providence," and the several acts in amendment thereof and in addition thereto, upon application of the City Council of said city, representing that it is desirable and necessary to lay out and extend a certain street in said City of Providence, to wit: Lexington avenue from the westerly line of Niagara street to Broad street, making the northerly and southerly lines of the same as laid out and extended to range with the corresponding lines of the portion of said Lexington avenue between Niagara and Hamilton streets, and that certain real estate will be required for that purpose, and requesting the appointment of five commissioners of Estimate and Assessment under and according to said acts of the General Assembly, hereby give notice to all persons interested in their proceedings, under and by virtue of their said appointment, that they have appointed WEDNESDAY, June 3, 1896, at 2 o'clock, P. M., as the time, and Room B in the City Hall in said city as the place of said meeting, to make the estimates and assessments required to be by them made under and by virtue of their commission by said act.

And the undersigned further give notice that, according to their present opinion, the lands, tenements, hereditaments, and premises situated and lying within the following lines and boundaries are benefited within the intent and meaning of said act by such layout and extension of Lexington avenue, viz.:

A certain area bounded by a line beginning at a point on the northerly line of Atlantic avenue at the intersection of said avenue with Broad street, thence westerly on said northerly line of Atlantic avenue to the easterly line of Elmwood avenue, at the intersection of said Atlantic and Elmwood avenues, thence northerly on the easterly line of said Elmwood avenue to a point where a line in continuation of the southerly line of Ontario street would intersect said avenue, thence easterly on said line in continuation of the southerly line of said Ontario street, and on said southerly line of Ontario street to the westerly line of Broad street at the intersection of said Ontario and Broad streets, thence easterly across Broad street to the easterly line thereof at its intersection with the southerly line of Oxford street; thence easterly on the southerly line of Oxford street to the westerly line of Orchard street at the intersection of said Oxford and Orchard streets, thence southerly on said westerly line of Orchard street, and on a line in continuation of said westerly line to a point in the northerly line of Gallup street at the intersection of said line with Gallup street, thence westerly on the

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northerly line of Gallup street to the easterly line of Broad street at the intersection of said Broad and Gallup streets, thence northwesterly across said Broad street in a straight line to the point of beginning.

Plats of the aforesaid layout and extension and of the assessment area may be seen at the office of Arthur P. Sumner, one of the Commissioners, at No. 17 Custom House street, room No. 10, in said Providence.

CHARLES E. HARRIS,
GEORGE F. HOLROYD,
THOMAS H. LEONARD,
WILLIAM DUFFY,
ARTHUR P. SUMNER,
Commissioners.

PROVIDENCE, R. I., May 12, 1896.

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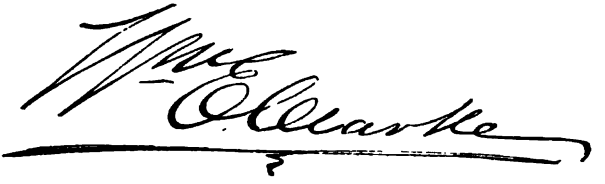
I hereby certify that the aforegoing is a true copy of the report of the Commissioners of Estimate and Assessment appointed by the Common Pleas Division of the Supreme Court at its September Session, A. D. 1895, in the matter of the layout and extension of Lexington avenue, from Niagara street to Broad street, to be by them made to said Court.

ARTHUR P. SUMNER,

One of the Commissioners and Clerk of the Commission.

Received on file in the City Clerk's office, in the City of Providence, on the 14th day of November, A. D. 1896.

Witness :



City Clerk.

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